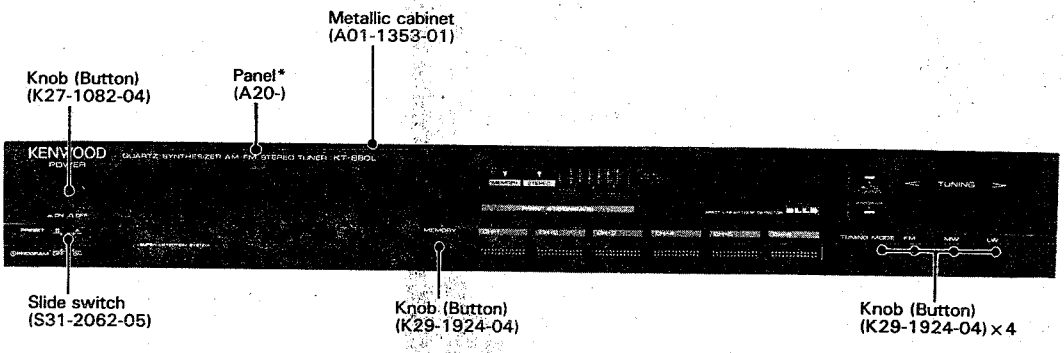
SERVICE MANUAL

KENWOOD

KT-880
KT-880L

QUARTZ SYNTHESIZER AM-FM STEREO TUNER



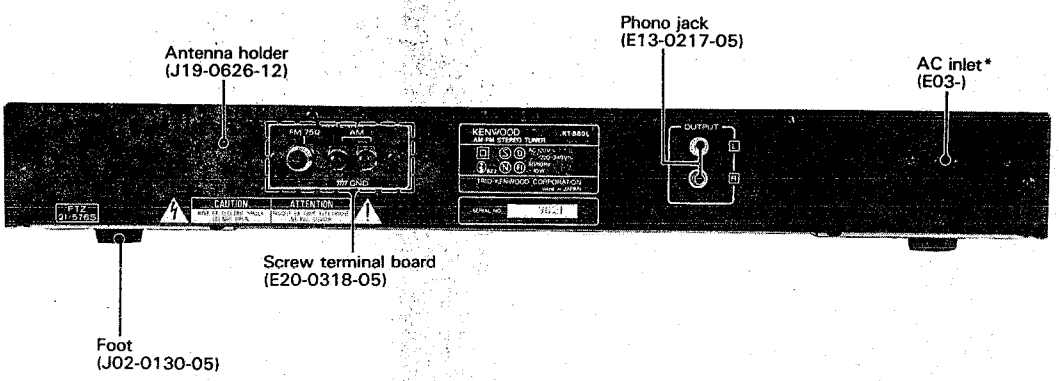
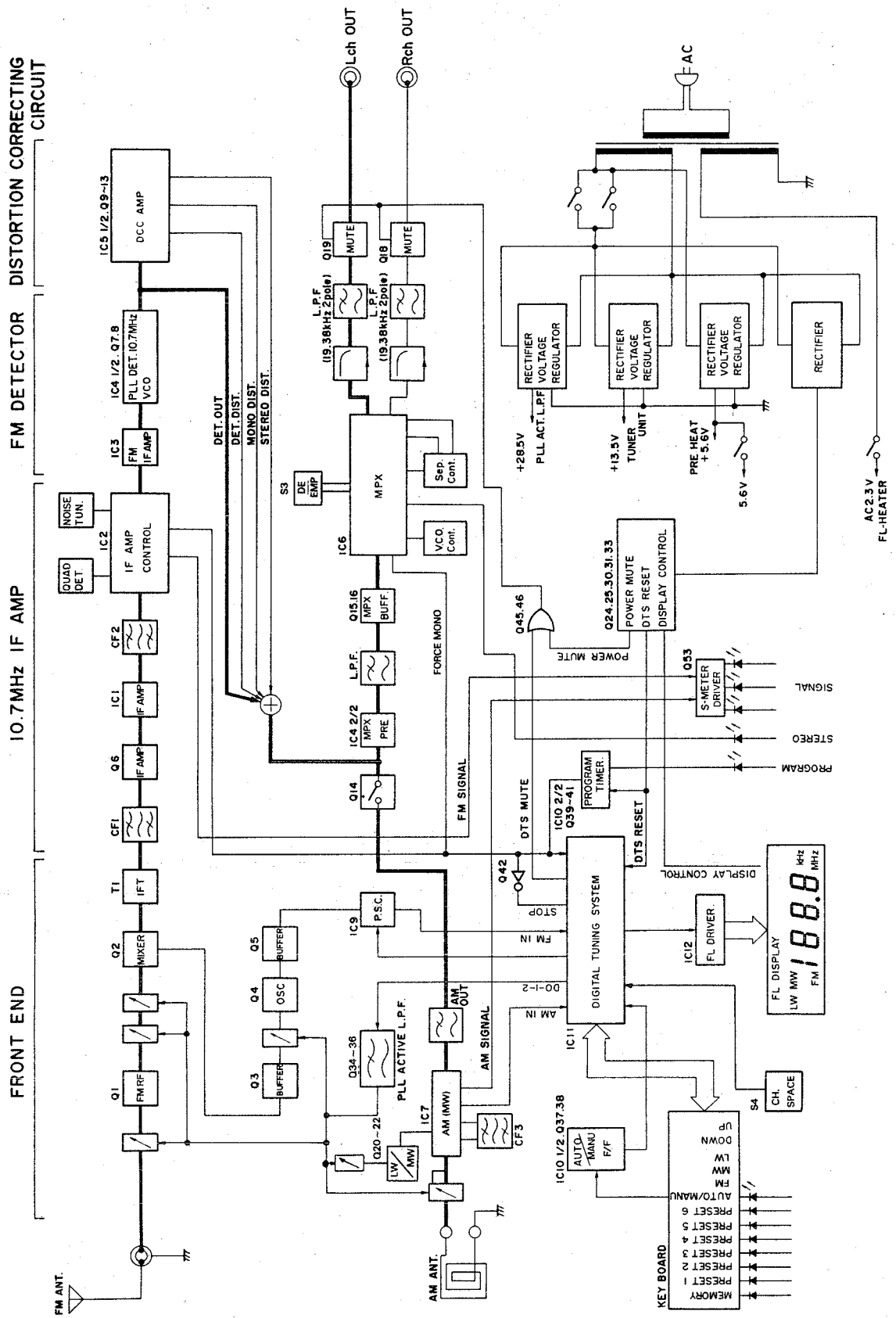


Photo is KT-880L

*Refer to Parts List on page 18

BLOCK DIAGRAM



CIRCUIT DESCRIPTION

DESCRIPTION OF COMPONENTS

X05-2780-00

Components	Functions	Operations
IC1	FM IF amp	
IC2	FM IF amp	1) IF amp 2) S meter drive 3) Muting signal (stop signal) output
IC3	FM IF amp	Buffer and limiter amp between IC2 and double-balanced mixer
IC4 (1/2)	PLL detector	L.P.F. for the PLL detector
IC4 (2/2)	MPX pre-amp	Amplifying the FM demodulated output and AM (MW) detected output
IC5 (1/2)	DCC amp	Corrects 2nd harmonic distortion of stereo sound (L ch or R ch only)
IC5 (2/2)	MPX Vref buffer amp	DC amp for the PLL detector, MPX pre-amp and DCC reference voltage
IC6	MPX	1) Stereo demodulation 2) Beacon lights During AM mode, the VCO stops; forced monaural when detuned.
IC7	AM	1) During FM mode, RF Vcc turns OFF.
IC8	3-pin regulator	5 V regulated power supply
IC9	FM prescaler	Frequency divider of the FM local oscillator output
IC10 (1/2)	Auto/Manual select	Flip-flop. Even when the power is OFF, the ON state is backed up by an electrolytic capacitor.
IC10 (2/2)	Program channel latch	Reset when program is set to OFF. If $\overline{\text{INH}}$ changes state repeatedly from OFF to ON with program ON, the program channel turns ON.
IC11	Digital Tuning System (D.T.S.)	Incorporates FM/AM (MW)/LW programmable counter, station memory, reference oscillator (7.2 MHz), phase comparator, display driver, etc. When the power is switched OFF, the ON state is backed up by an electrolytic capacitor.
IC12	FIP driver	
Q1	FM RF amp	
Q2	FM mixer	
Q3	Buffer amp	Buffer amp between the local oscillator and mixer
Q4	FM local oscillator	
Q5	Buffer amp	Buffer amp between the local oscillator and prescaler
Q6	FM IF amp	
Q7, 8	10.7 MHz oscillation	10.7 MHz V.C.O. for the PLL detection
Q9	Inverting/non-inverting output amp	
Q10, 11	Square multiplier	Signals input to Q10 and Q11 cancel each other because they are 180° out of phase from each other, whereby odd-numbered higher harmonics are cancelled and 2nd harmonic distortion is extracted.
Q12	Buffer amp	Buffer amp for correcting the detector distortion
Q13	DCC amp	Corrects the monaural 2nd harmonic distortion.
Q14	FET switch	This is ON during AM (MW)/LW mode and OFF during FM mode.
Q15, 16	MPX pre-amp	Buffer amp for matching impedance of L8 output
Q17	S meter switch	Forced monaural switch using the FM S meter output
Q18, 19	Output muting	These turn ON and mute output (−60 dB) when power is switched ON, mode is switched between FM, AM (MW) and LW, channel is searched UP and DOWN, or memory is recalled.

CIRCUIT DESCRIPTION

Components	Functions	Operations
Q20	LW RF amp	
Q21	LW buffer amp	
Q22	MW RF amp	
Q23	Muting control	This is ON when muting is ON.
Q24	FIP grid control	When power is ON, this turns ON to make FIP grid low. This turns OFF immediately after INH goes high to make the FIP grid high.
Q25	Power muting control	When power is ON, this turns ON. In approx. 3 seconds, this turns OFF. When power is switche OFF, this turns ON.
Q26	Constant voltage error amp	+13.5 V, main +B
Q27	Constant voltage error amp	+28 V, +B for V_2
Q28	Constant voltage pass transistor	+28 V, +B for V_T
Q29	Constant voltage pass transistor	+28 V, main +B
Q30	INH control	DTS reset. Rises when power is ON, and falls when power is OFF.
Q31	Logic inverter and INH timing	
Q32	Regulated power supply	Comprises a Darlington pair with Q29.
Q33	For discharging C174	This turns ON soon after power is switched OFF, discharging C174.
Q34	DC amp (L.P.F.)	
Q35	FET switch	During FM/MW: ON During LW: OFF (switches the time constant of the L.P.F.)
Q36	DC amp (L.P.F.)	
Q37, 38	Power supply buffer	Prevents current drain when the CMOS current buffer and the CMOS are backed up.
Q39, 40	One-shot multivibrator	Produces a pulse at the leading edge of INH. Used for a program channel.
Q41	Power supply buffer	Prevents current drain when the CMOS current buffer and CMOS are backed up. Used for a program channel.
Q42	Logic inversion and interface with the DTS	Inverts the logic of STOP signal of LA1231NS, then provides the STOP signal to the DTS.
Q43	Switch	LW power switch
Q44	Control transistor	Controls LW
Q45, 46	Controlling the muting transistor	Either the MUTE signal from the DTS or the power MUTE signal turns Q46 ON.
Q47	Switch	AM (MW) power switch
Q48	Control transistor	AM (MW) control
Q49	Switch	FM power switch
Q50	Control transistor	Controls FM and FM/AM (MW) switch Q14.
Q51	FIP driver	LSB frequency 0 kHz
Q52	FIP driver	LSB frequency 50 kHz
Q53	S meter driver	Drives the S meter of FM/AM (MW) and LW.

CIRCUIT DESCRIPTION

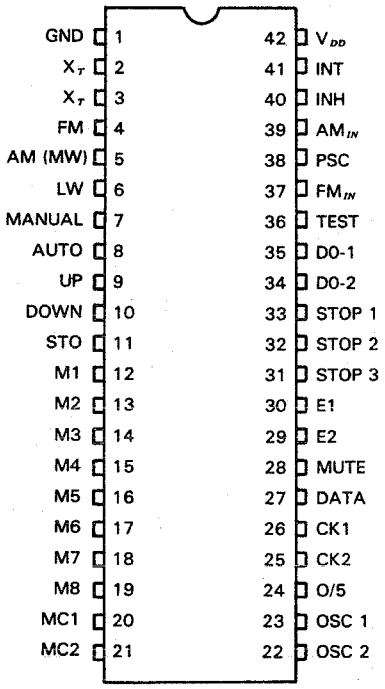
IC11 (TC9146AP) Description of pin function

Pin No.	Symbol	Description	Function	Remarks
2	X_T	Crystal oscillator pin	The reference frequency crystal unit X1 (7.2 MHz) is connected.	With feedback resistor
3	$\overline{X_T}$			
4	FM	FM band selection input pin	FM, AM (MW) or LW band is selected.	A
5	AM (MW)	AM (MW) band selection input pin		
6	LW	LW band selection input pin		
7	MANUAL	Manual tuning mode selection input pin	Manual tuning or auto search tuning mode is selected for UP/DOWN operation	A
8	AUTO	Auto search tuning mode selection input pin		
9	UP	UP key input pin	Push switches S18 and S17 are used for UP/DOWN tuning.	B
10	DOWN	DOWN key input pin		
11	STO	Memory store command input pin	With this input, the preset memory stands by for memory storing.	A
12 - 19	M1 — M8	Preset memory channel selection input pin	Controls the preset memory store/recall (16 channels) together with MC1 and MC2.	A
20	MC1	Remote control input pin (Program A/B)	Sets the 16 channel preset memory to FM and AM (MW)/LW bands.	C
21	MC2			
22	OSC2	AM (MW) oscillation pin	The oscillator consisting of C and R is connected to determine the AM (MW) search scanning speed.	—
23	OSC1	FM oscillation pin	The oscillator consisting of C and R is connected to determine the FM search scanning speed.	—
25	CK2	Reception frequency data serial output pin	Serial data and timing clock signals are output to reception frequency display driver TS6301AP.	D
26	CK1			
27	DATA			
28	MUTE	Muting signal output pin	Becomes H when muting signal is output.	D
29	E2	Destination selection input pin	Specifies the destinations, Japan, USA, Europe.	E
30	E1			
31	STOP3	AM (MW) IF signal input pin	In AM mode, the IF of 450 kHz is counted to stop auto search operation.	F
32	STOP2	Auto search stop signal input pin	When an H signal is supplied to STOP1 pin and an H signal is output at STOP2 pin, auto search operation is stopped.	E
33	STOP1	Scan speed slow inpout pin	When an H signal is input, the auto search scan speed is halved.	E
34	DO-2	Phase comparator output pin	Two try state buffer outputs are output from single phase comparator.	G
35	DO-1			
36	TEST	Test pin	When an H signal is input, the unit enters test mode.	B
37	FM IN	FM programmable counter input pin	The output of the prescaler TD6104P is connected.	F
38	PSC	Prescaler control output pin	Controls the dividing ratio of 1/30 or 1/32 of the prescaler RS6104P.	D
39	AM (MW) IN	AM (MW) programmable counter input pin	The IC7 AM (MW) local oscillation signal is input.	F

CIRCUIT DESCRIPTION

Pin No.	Symbol	Description	Function	Remarks
40	$\overline{INH}$	Inhibit input pin	When an H signal is input, the unit is set to normal mode. When an L signal is input, the unit enters inhibit mode.	E
41	$\overline{INT}$	Initialize input pin	When an H signal is input, the unit is set to normal mode. When an L signal is input, the unit internal condition is initialized.	E
43	V_{DD}	Power supply pin		
1	GND			

Pin connection diagram

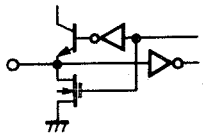


CIRCUIT DESCRIPTION

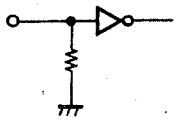
Terminal connections

Input/output equalizer circuit

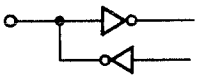
A. Input/output circuit equipped with bipolar transistor LED driver



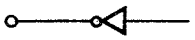
B. C-MOS input circuit consisting of pull-down resistor



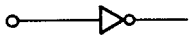
C. C-MOS input/output circuit



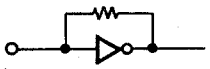
D. C-MOS output circuit



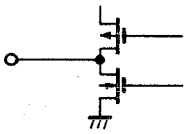
E. C-MOS input circuit (without pull-up/down resistor)



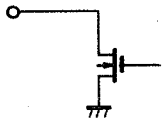
F. Built-in input amp



G. Try state output circuit



H. Nch MOS LED driver output circuit



I. Bipolar transistor LED driver circuit

CIRCUIT DESCRIPTION

TWO-STATION PROGRAM

Each time the power switch is turned ON with the program switch set to ON, preset stations can be recalled from last channel, ch 6, ch 6, etc.
When the program switch is set to OFF, $\overline{Q}$ goes "H"; when the program switch is set to ON, the KT-880/L operates as shown in the following timing chart.

1. When power is switched ON for the first time — Last channel

a. Clock pulse begins to rise concurrently with the rise of 5 V supply. At this time, since J and K of the JK flip-flop are "L", $\overline{Q}$ remains the same (does not change logic level).

b. At the leading edge of $\overline{INH}$, the one-shot multivibrator operates and a single pulse appears at point (A).
At this time, since $\overline{Q}$ is "H", the level at point (B) remains "L".

c. When point (A) goes "L", the clock begins to rise. At this time, since J of the JK flip-flop is "H" and K is "L", $\overline{Q}$ goes "L".

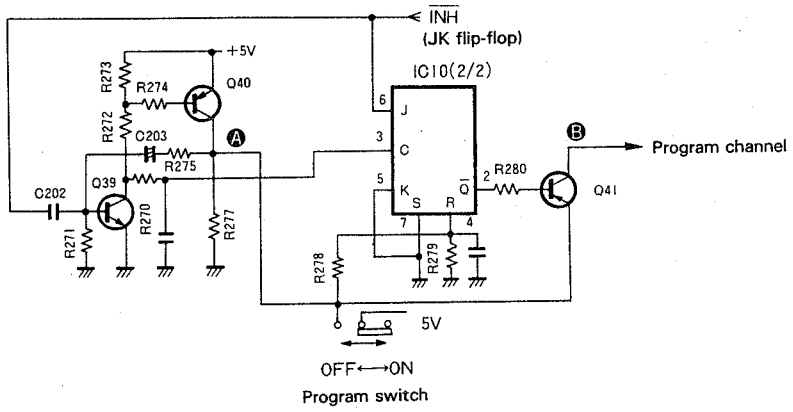
2. When power is switched ON for the second time — Program channel (ch 6)

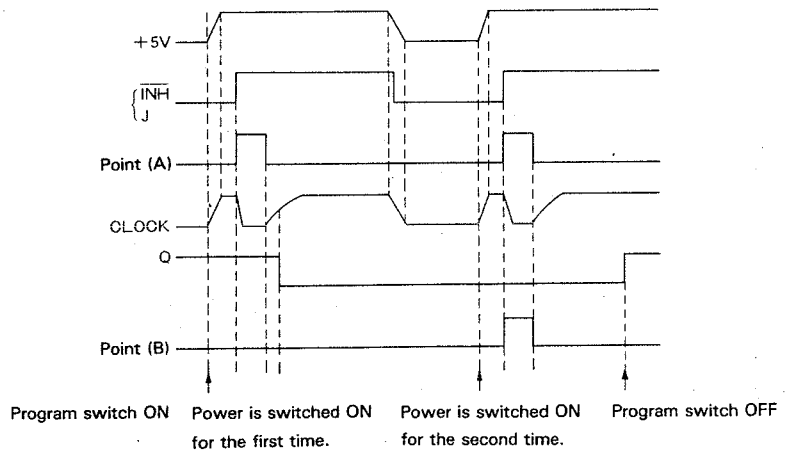
a. This is the same as when power is switched ON for the first time.

b. At the leading edge of $\overline{INH}$, the one-shot multivibrator operates and a single pulse appears at point (A). At this time, since $\overline{Q}$ is "L", the same pulse at point (A) appears at point (B), recalling the program channel.

c. The same operations as c. when power is switched ON for the first time is executed.

Henceforth, 2. above is repeated. It is not until the propgram switch is turned OFF that $\overline{Q}$ goes "H" again.





CIRCUIT DESCRIPTION

POWOR MUTE, $\overline{\text{INH}}$, FL GRID TIMING CIRCUIT

This circuit generates the following timing.

When power is switched ON	When power is switched OFF
↓	↓
Power mute is turned ON	Power mute is turned ON
↓	↓
$\overline{\text{INH}}$ goes "H"	FL grid goes "L"
↓	↓
FL grid goes "H"	$\overline{\text{INH}}$ goes "L"
↓	
Power mute turns OFF	

Refer to the timing diagram

1. When power is switched ON

a. The voltage at point (C) instantaneously rises and Q33 turns OFF.

b. C174 is charged through R238 and R234, and as shown, the voltage at point (A) gradually increases.

c. When Q31 starts conducting, the voltage at point (B) starts decreasing with the result that $\overline{\text{INH}}$ and the FL grid go "H", in that order.

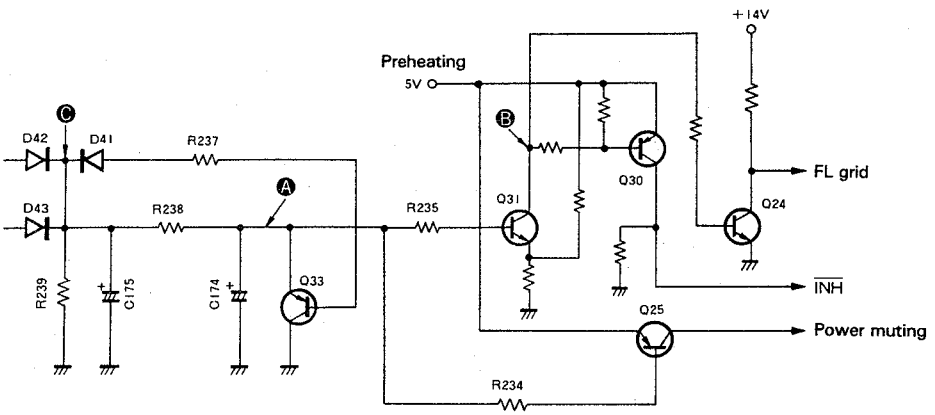
d. When the voltage at point (A) exceeds 4.5 V, Q25 turns OFF and power muting is turned OFF.

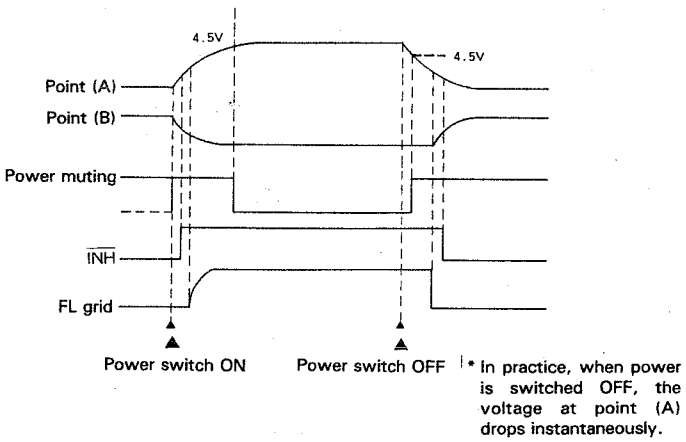
2. When power is switched OFF

a. The charge stored at C175 is instantaneously discharged through R239 and the voltage at point (C) drops. Then, Q33 turns ON and discharges the charge stored in C174.

b. When the voltage at point (A) drops to approx. 4.5 V (instantaneously), Q25 turns ON and power muting is turned ON.

c. When the voltage at point (A) drops and Q31 begins to be non-conductive, the potential at point (B) begins to increase with the result that the FL grid and $\overline{\text{INH}}$ go "L", in that order.





Timing diagram

ADJUSTMENT

No.	ITEM	INPUT SETTINGS	OUTPUT SETTINGS	TUNER SETTINGS	ALIGNMENT POINTS	ALIGN FOR	FIG.
FM	SECTION	Unless otherwise specified, the individual switches should be set as following: SELECTOR: FM TUNING MODE: AUTO					
1	BAND EDGE (1)	—	Connect a DC voltmeter between TP9 and TP10(GND).	87.5MHz	L5	3.0V	(a)
2	BAND EDGE (2)	—	Connect a DC voltmeter between TP9 and TP10(GND).	108.0MHz	TC1	25.0V	(a)
		Repeat alignments 1 and 2 several times.					
3	DETECTOR (1)	(A) 98.0MHz 0 dev 100dB(ANT input)	Connect a DC voltmeter between TP3 and TP4.	98.0MHz	T2	Confirm that voltage changes to both + and − direction. Then adjust to 0V.	(b)
4	DETECTOR (2)	(A) 98.0MHz 0 dev 100dB(ANT input)	Connect a DC voltmeter between TP5 and TP6.	98.0MHz	T4	Confirm that voltage changes to both + and − direction. Then adjust to 0V.	(c)
5	RF ALIGNMENT	(A) 90.0MHz 1kHz,±75kHz dev 60dB(ANT input)	(B)	90.0MHz	L1,2,3	Maximum amplitude and symmetry of the oscilloscope display.	
6	VCO	(A) 98.0MHz 0 dev 60dB(ANT input)	Connect a frequency counter to TP7 via an AC voltmeter.	98.0MHz	VR4	76000Hz	(d)
7	DISTORTION (1) (MONO)	(A) 98.0MHz 1kHz,±75kHz dev 80dB(ANT input)	(B)	98.0MHz	VR1,2	Minimum distortion.	
8	DISTORTION (2) (STEREO)	(C) 98.0MHz 1kHz,±68.25kHz dev SELECTOR: SUB Pilot:±6.75kHz dev 80dB(ANT input)	(B)	98.0MHz	T1	Minimum distortion.	
9	DISTORTION (3) (MONO)	(A) 98.0MHz 1kHz,±75kHz dev 80dB(ANT input)	(B) Connect an oscilloscope to the OUTPUT terminal via a distortion meter.	98.0MHz	VR1,2	Minimum distortion. Confirm that the Lissajous figure on the screen of the oscilloscope become a straight line.	
10	DISTORTION (4) (STEREO)	(C) 98.0MHz 1kHz,±68.25kHz dev Selector: L Pilot:±6.75kHz dev 80dB(ANT input)	(B)	98.0MHz	VR3	Minimum distortion.	
11	SEPARATION	(C) 98.0MHz 1kHz,±68.25kHz dev Selector: L or R Pilot: ±6.75kHz dev 80dB(ANT input)	(B)	98.0MHz	VR5	Minimum crosstalk.	

ADJUSTMENT

No.	ITEM	INPUT SETTINGS	OUTPUT SETTINGS	TUNER SETTINGS	ALIGNMENT POINTS	ALIGN FOR	FIG.
AM	SECTION	Keep the AM loop antenna installed. SELECTOR: AM					
(1)	BAND EDGE (1)	—	Connect a DC voltmeter between TP9 and TP10(GND).	530kHz (522kHz)	T6	2.5V	(a)
(2)	BAND EDGE (2)	—	Connect a DC voltmeter betwwen TP9 and TP10(GND).	1600kHz (1611kHz)	TC5	20.0V	(a)
Repeat alignments (1) and (2) several times.							
(3)	RF ALIGNMENT (1)	(D) 630kHz 400Hz,30% mod	(B)	630kHz	T8,9	Maximum amplitude and symmetry of the oscilloscope display.	
(4)	RF ALIGNMENT (2)	(D) 1440kHz 400Hz,30% mod	(B)	1440kHz	TC3	Maximum amplitude and symmetry of the oscilloscope display.	
Repeat alignments (3) and (4) several times.							
LW	SECTION	Keep the AM loop antenna installed. SELECTOR: AM,LW					
(5)	BAND EDGE (LW)(1)	—	Connect a DC voltmeter between TP9 and TP10(GND).	153kHz	T5	3.5V	
(6)	BAND EDGE (LW)(2)	—	Connect a DC voltmeter between TP9 and TP10(GND).	360kHz	TC4	22.0V	
Repeat alignments (5) and (6) several times.							
(7)	RF ALIGNMENT (LW)(1)	(D) 173kHz 400Hz,30% mod	(B)	173kHz	T7	Maximum amplitude and symmetry of the oscilloscope display.	
(8)	RF ALIGNMENT (LW)(2)	(D) 323kHz 400Hz,30% mod	(B)	323kHz	TC2	Maximum amplitude and symmetry of the oscilloscope display.	
Repeat alignments (7) and (8) several times.							

REGLAGES

N°	ITEM	REGLAGE DE L'ENTREE	REGLAGE DE LA SORTIE	REGLAGE DU TUNER	POINT DE L'ALIGNEMENT	ALIGNER POUR	FIG
SECTION MF		Sauf en cas d'indications spéciales, régler chaque commutateur comme suit: SELECTOR: FM TUNING MODE: AUTO					
1	BORD DE BANDE (1)	—	Connecter un voltmètre CC entre les TP9 et TP10(GND).	87,5MHz	L5	3,0V	(a)
2	BORD DE BANDE (2)	—	Connecter un voltmètre CC entre les TP9 et TP10(GND).	108,0MHz	TC1	25,0V	(a)
		Répéter les alignements 1 et 2 plusieurs fois.					
3	DETECTEUR (1)	(A) 98,0MHz 0 dév 100dB(Entrée ANT)	Connecter un voltmètre CC entre les TP3 et TP4.	98,0MHz	T2	Affermir que la tension change dans la direction + et —. Alors ajuster à 0V.	(b)
4	DETECTEUR (2)	(A) 98,0MHz 0 dév 100dB(Entrée ANT)	Connecter un voltmètre CC entre les TP5 et TP6.	98,0MHz	T4	Affermir que la tension change dans la direction + et —. Alors ajuster à 0V.	(c)
5	ALIGNEMENT HT	(A) 90,0MHz 1kHz.±75kHz dév 60dB(Entrée ANT)	(B)	90,0MHz	L1.2.3	Amplitude et symétrie maximale de l'affichage de l'oscilloscope.	
6	OSCILLATEUR CONTROLE PAR LA TENSION	(A) 98,0MHz 0 dév 60dB(Entrée ANT)	Connecter un compteur de fréquence à TP7 par l'intermédiaire d'un voltmètre CA.	98,0MHz	VR4	76000Hz	(d)
7	DISTORSION (1) (MONO)	(A) 98,0MHz 1kHz.±75kHz dév 80dB(Entrée ANT)	(B)	98,0MHz	VR1,2	Distorsion minimale.	
8	DISTORSION (2) (STEREO)	(C) 98,0MHz 1kHz.±68,25kHz dév Sélection:SUB Signal pilote: ±6,75kHz dév 80dB(Entrée ANT)	(B)	98,0MHz	T1	Distorsion minimale.	
9	DISTORSION (3) (MONO)	(A) 98,0MHz 1kHz.±75kHz dév 80dB(Entrée ANT)	(B) Connecter l'oscilloscope à la borne OUTPUT par le distorsionmètre.	98,0MHz	VR1,2	Distorsion minimale. Affermir que le figure de Lissajou sur l'écran de l'oscilloscope ne soit plus qu'une ligne droit.	
10	DISTORSION (4) (STEREO)	(C) 98,0MHz 1kHz.±68,25kHz dév Sélection:L Signal pilote: ±6,75kHz dév 80dB(Entrée ANT)	(B)	98,0MHz	VR3	Distorsion minimale.	
11	SEPARATION	(C) 98,0MHz 1kHz.±68,25kHz dév Sélection:L ou R Signal pilote: ±6,75kHz dév 80dB(Entrée ANT)	(B)	98,0MHz	VR5	Diaphonie minimale.	

REGLAGES

N°	ITEM	REGLAGE DE L'ENTREE	REGLAGE DE LA SORTIE	REGLAGE DU TUNER	POINT DE L'ALIGNEMENT	ALIGNER POUR	FIG
SECTION MA	Laisser l'antenne boucle MA installée. SELECTOR: AM						
(1)	BORD DE BANDE (1)	—	Connecter un voltmètre CC entre les TP9 et TP10(GND).	530kHz (522kHz)	T6	2,5V	(a)
(2)	BORD DE BANDE (2)	—	Connecter un voltmètre CC entre les TP9 et TP10(GND).	1600kHz (1611kHz)	TC5	20,0V	(a)
Répéter les alignements (1) et (2) plusieur fois.							
(3)	ALIGNEMENT HT (1)	(D) 630kHz 400Hz.30% mod	(B)	630kHz	T8,9	Amplitude et symétrie maximale de l'affichage de l'oscilloscope.	
(4)	ALIGNEMENT HT (2)	(D) 1440kHz 400Hz.30% mod	(B)	1440kHz	TC3	Amplitude et symétrie maximale de l'affichage de l'oscilloscope.	
Répéter les alignements (3) et (4) plusieur fois.							
SECTION OL	Laisser l'antenne boucle MA installée. SELECTOR: AM,LW						
(5)	BORD DE BANDE (LW)(1)	—	Connecter un voltmètre CC entre les TP9 et TP10(GND).	153kHz	T5	3,5V	
(6)	BORD DE BANDE (LW)(2)	—	Connecter un voltmètre CC entre les TP9 et TP10(GND).	360kHz	TC4	22,0V	
Répéter les alignements (5) et (6) plusieur fois.							
(7)	ALIGNEMENT HT (LW)(1)	(D) 173kHz 400Hz.30% mod	(B)	173kHz	T7	Amplitude et symétrie maximale de l'affichage de l'oscilloscope.	
(8)	ALIGNEMENT HT (LW)(2)	(D) 323kHz 400Hz.30% mod	(B)	323kHz	TC2	Amplitude et symétrie maximale de l'affichage de l'oscilloscope.	
Répéter les alignements (7) et (8) plusieur fois.							

ABGLEICH

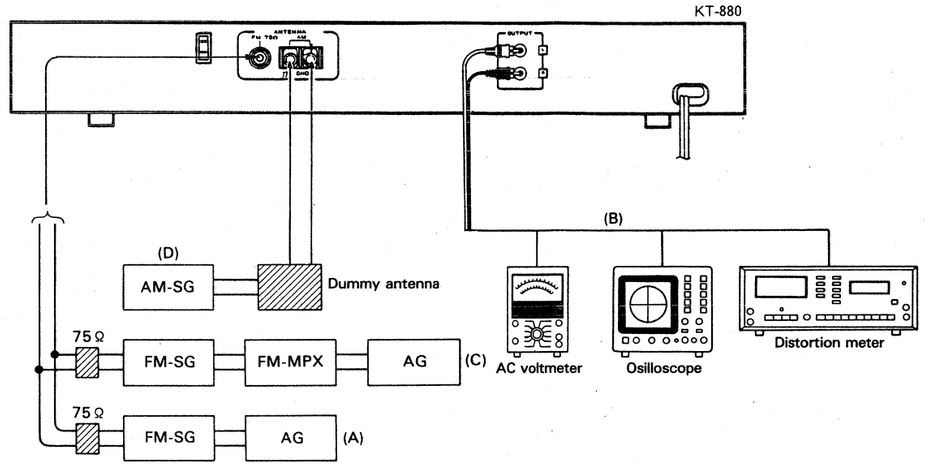
NR.	GEGENSTAND	EINGANGS-EINSTELLUNG	AUSGANGS-EINSTELLUNG	TUNER-EINSTELLUNG	ABGLEICH-PUNKTE	ABGLEICHEN FÜR	ABB.
UKW-EMPFANGSABTEILUNG		Außer wenn anders angegeben, die verschiedenen Schalter wie folgt einstellen: SELECTOR: FM TUNING MODE: AUTO					
1	BANDKANTE (1)	–	Einen Gleichspannungs-messer zwischen TP9 und TP10(GND) anschließen.	87,5MHz	L5	3,0V	(a)
2	BANDKANTE (2)	–	Einen Gleichspannungs-messer zwischen TP9 und TP10(GND) anschließen.	108,0MHz	TC1	25,0V	(a)
Abstimmungen 1 und 2 mehrere Male wiederholen.							
3	DETEKTOR (1)	(A) 98,0MHz 0 Hub 100dB(ANT-Eingang)	Einen Gleichspannungs-messer zwischen TP3 und TP4 anschließen.	98,0MHz	T2	Bestätigen so daß die Spannung beide richtung zu + und − ändert. Dann zu 0V einstellen.	(b)
4	DETEKTOR (2)	(A) 98,0MHz 0 Hub 100dB(ANT-Eingang)	Einen Gleichspannungs-messer zwischen TP5 und TP6 anschließen.	98,0MHz	T4	Bestätigen so daß die Spannung beide richtung zu + und − ändert. Dann zu 0V einstellen.	(c)
5	HF-ABGLEICH	(A) 90,0MHz 1kHz.±75kHz Hub 60dB(ANT-Eingang)	(B)	90,0MHz	L1.2.3	Maximal Amplitude und Symmetrie des Oszilloskopbildes.	
6	SPANNUNGS-GEREGELTER OSZILLATOR	(A) 98,0MHz 0 Hub 60dB(ANT-Eingang)	Einen Frequenzmesser an TP7 über einen Wechselspannungsmesser anschließen.	98,0MHz	VR4	76000Hz	(d)
7	KLIRRFAKTOR (1) (MONO)	(A) 98,0MHz 1kHz.±75kHz Hub 80dB(ANT-Eingang)	(B)	98,0MHz	VR1.2	Minimale Klirrfaktor.	
8	KLIRRFAKTOR (2) (STEREO)	(C) 98,0MHz 1kHz.±68,25kHz Hub Wähler:SUB Pilotten: ±6,75kHz Hub 80dB(ANT-Eingang)	(B)	98,0MHz	T1	Minimale Klirrfaktor.	
9	KLIRRFAKTOR (3) (MONO)	(A) 98,0MHz 1kHz.±75kHz Hub 80dB(ANT-Eingang)	(B) Ein Oszilloskop zu OUTPUT-Klemme über den Klirrfactormesser anschließen.	98,0MHz	VR1.2	Minimale Klirrfaktor. Die Lissajoussche Figur auf dem Bildschirm des Oszilloskop einen gerade Linie wird.	
10	KLIRRFAKTOR (4) (STEREO)	(C) 98,0MHz 1kHz.±68,25kHz Hub Wähler:L Pilotten: ±6,75kHz Hub 80dB(ANT-Eingang)	(B)	98,0MHz	VR3	Minimale Klirrfaktor.	
11	STEREO KANAL TRENNUNG	(C) 98,0MHz 1kHz.±68,25kHz Hub Wähler:L oder R Pilotten: ±6,75kHz Hub 80dB(ANT-Eingang)	(B)	98,0MHz	VR5	Minimales Übersprechen.	

ABGLEICH

NR.	GEGENSTAND	EINGANGS-EINSTELLUNG	AUSGANGS-EINSTELLUNG	TUNER-EINSTELLUNG	ABGLEICH-PUNKTE	ABGLEICHEN FÜR	ABB.
MW-EMPFANGSABTEILUNG			Die MW-Rahmenantenne angebracht lassen. SELECTOR: AM				
(1)	BANDKANTE (1)	–	Einen Gleichspannungs-messer zwischen TP9 und TP10(GND) anschließen.	530kHz (522kHz)	T6	2,5V	(a)
(2)	BANDKANTE (2)	–	Einen Gleichspannungs-messer zwischen TP9 und TP10(GND) anschließen.	1600kHz (1611kHz)	TC5	20,0V	(a)
Abstimmungen (1) und (2) mehrere Male wiederholen.							
(3)	HF-ABGLEICH (1)	(D) 630kHz 400Hz.30% mod	(B)	630kHz	T8.9	Maximale Amplitude und Symmetrie des Oszilloskopbildes.	
(4)	HF-ABGLEICH (2)	(D) 1440kHz 400Hz.30% mod	(B)	1440kHz	TC3	Maximale Amplitude und Symmetrie des Oszilloskopbildes.	
Abstimmungen (3) und (4) mehrere Male wiederholen.							
LW-EMPFANGSABTEILUNG			Die MW-Rahmenantenne angebracht lassen. SELECTOR: AM,LW				
(5)	BANDKANTE (LW)(1)	–	Einen Gleichspannungs-messer zwischen TP9 und TP10(GND) anschließen.	153kHz	T5	3,5V	
(6)	BANDKANTE (LW)(2)	–	Einen Gleichspannungs-messer zwischen TP9 und TP10(GND) anschließen.	360kHz	TC4	22,0V	
Abstimmungen (5) und (6) mehrere Male wiederholen.							
(7)	HF-ABGLEICH (LW)(1)	(D) 173kHz 400Hz.30% mod	(B)	173kHz	T7	Maximale Amplitude und Symmetrie des Oszilloskopbildes.	
(8)	HF-ABGLEICH (LW)(2)	(D) 323kHz 400Hz.30% mod	(B)	323kHz	TC2	Maximale Amplitude und Symmetrie des Oszilloskopbildes.	
Abstimmungen (7) und (8) mehrere Male wiederholen.							

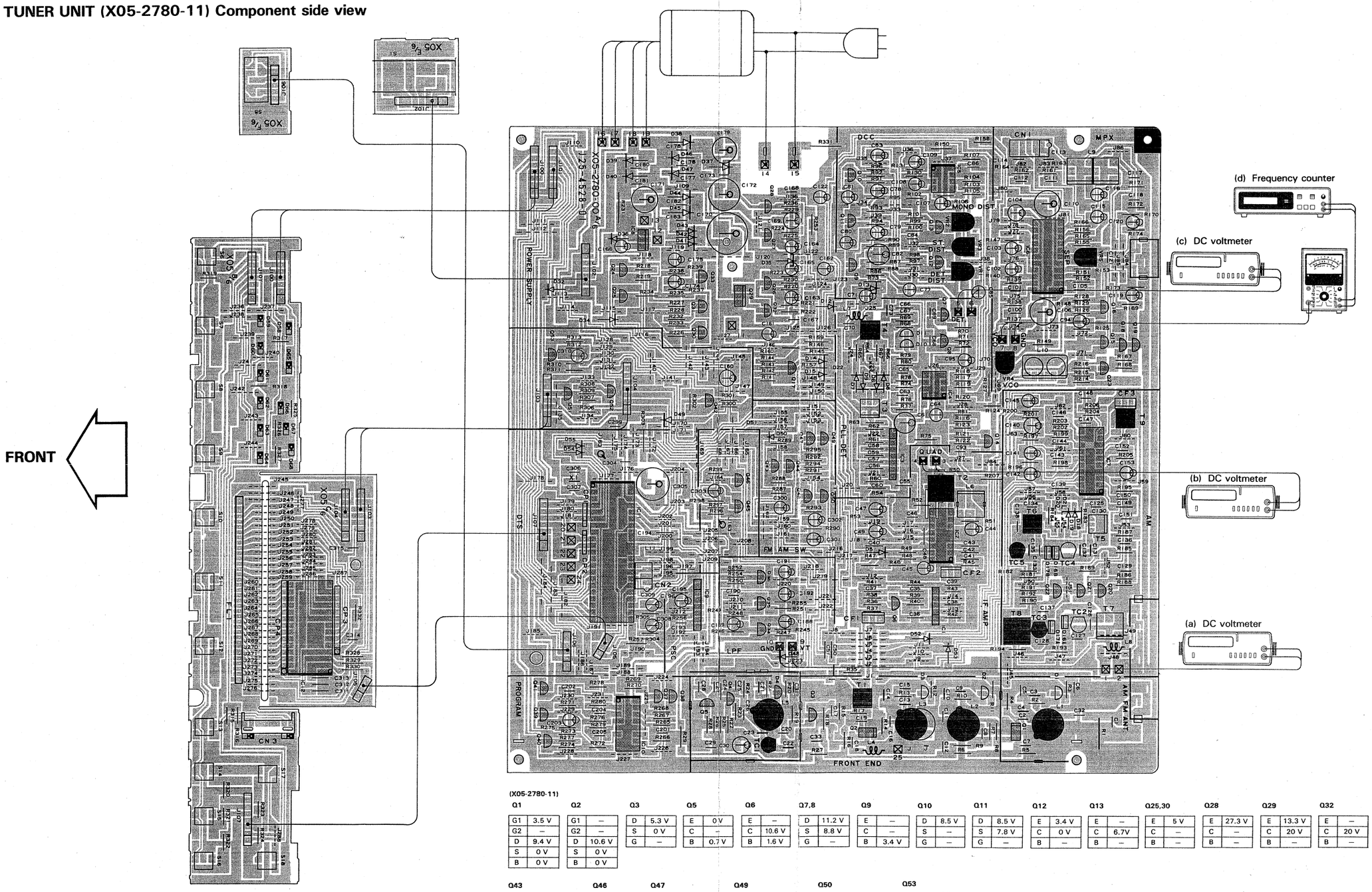
ADJUSTMENT/REGLAGES/ABGLEICH

CONNECTION



PC BOARD

TUNER UNIT (X05-2780-11) Component side view



IC6

Pin	Voltage
12	Mono: 13.2 V ST: 0.1 V

IC7

Pin	Voltage
1	(5.5 V)
9	(8.9 V)

IC8

IN	16.6 V
OUT	5.7 V
GND	–

IC11

Pin	Voltage
41	5 V
42	

(X05-2780-11)

Q1

G1	3.5 V
G2	–
D	9.4 V
S	0 V
B	0 V

Q2

G1	–
G2	–
D	10.6 V
S	0 V
B	0 V

Q3

D	5.3 V
S	0 V
G	–

Q5

E	0 V
C	–
B	0.7 V

Q6

E	–
C	10.6 V
B	1.6 V

Q7,8

D	11.2 V
S	8.8 V
G	–

Q9

E	–
C	–
B	3.4 V

Q10

D	8.5 V
S	–
G	–

Q11

D	8.5 V
S	7.8 V
G	–

Q12

E	3.4 V
C	0 V
B	–

Q13

E	–
C	6.7V
B	–

Q25,30

E	5 V
C	–
B	–

Q28

E	27.3 V
C	–
B	–

Q29

E	13.3 V
C	20 V
B	–

Q32

E	–
C	20 V
B	–

Q33

E	6.1 V
C	–
B	–

Q36

D	–
S	2.0 V
G	–

Q43

E	10.8 V
C	LW: 13.3 V LW: −0.5 V
B	–

Q46

E	5 V
C	–
B	–

Q47

E	10.8 V
C	MW: 13.3 V MW: −0.5 V
B	–

Q49

E	10.8 V
C	FM: 13.3 V FM: 0 V
B	–

Q50

E	–
C	FM: 0.1V FM: 13.2 V
B	–

Q53

E	[1.8 V]
C	[6.6 V]
B	–

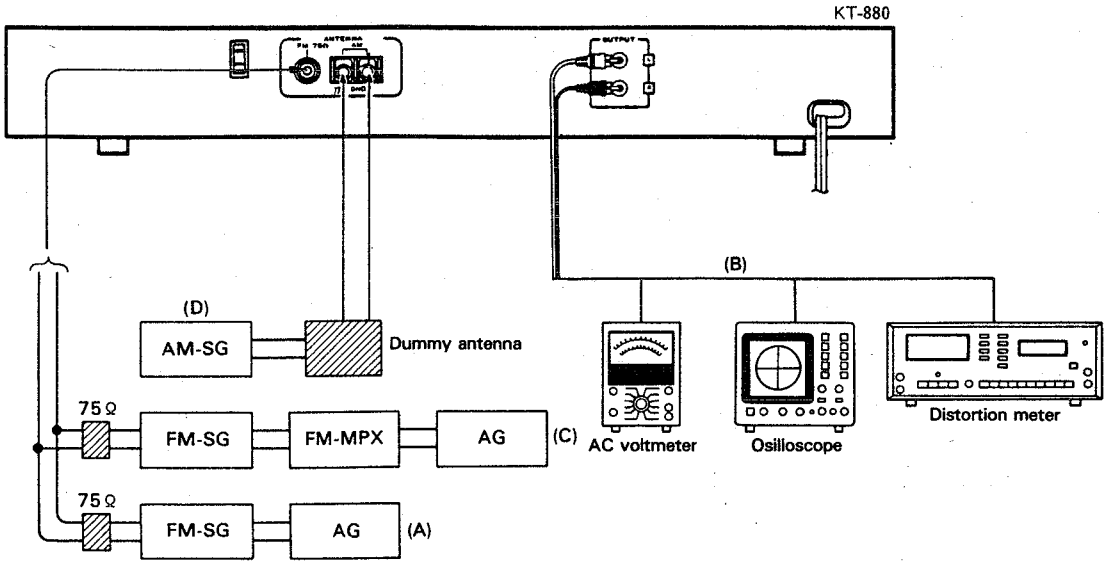
Refer to the schematic diagram for the values of resistors and capacitors.
The PC board drawing is viewing from the side easy to check.

ABGLEICH

NR.	GEGENSTAND	EINGANGS-EINSTELLUNG	AUSGANGS-EINSTELLUNG	TUNER-EINSTELLUNG	ABGLEICH-PUNKTE	ABGLEICHEN FÜR	ABB.
MW-EMPFANGSABTEILUNG			Die MW-Rahmenantenne angebracht lassen.		SELECTOR: AM		
(1)	BANDKANTE (1)	–	Einen Gleichspannungs-messer zwischen TP9 und TP10(GND) anschließen.	530kHz (522kHz)	T6	2,5V	(a)
(2)	BANDKANTE (2)	–	Einen Gleichspannungs-messer zwischen TP9 und TP10(GND) anschließen.	1600kHz (1611kHz)	TC5	20,0V	(a)
Abstimmungen (1) und (2) mehrere Male wiederholen.							
(3)	HF-ABGLEICH (1)	(D) 630kHz 400Hz.30% mod	(B)	630kHz	T8.9	Maximale Amplitude und Symmetrie des Oszilloskopbildes.	
(4)	HF-ABGLEICH (2)	(D) 1440kHz 400Hz.30% mod	(B)	1440kHz	TC3	Maximale Amplitude und Symmetrie des Oszilloskopbildes.	
Abstimmungen (3) und (4) mehrere Male wiederholen.							
LW-EMPFANGSABTEILUNG			Die MW-Rahmenantenne angebracht lassen.		SELECTOR: AM,LW		
(5)	BANDKANTE (LW)(1)	–	Einen Gleichspannungs-messer zwischen TP9 und TP10(GND) anschließen.	153kHz	T5	3,5V	
(6)	BANDKANTE (LW)(2)	–	Einen Gleichspannungs-messer zwischen TP9 und TP10(GND) anschließen.	360kHz	TC4	22,0V	
Abstimmungen (5) und (6) mehrere Male wiederholen.							
(7)	HF-ABGLEICH (LW)(1)	(D) 173kHz 400Hz.30% mod	(B)	173kHz	T7	Maximale Amplitude und Symmetrie des Oszilloskopbildes.	
(8)	HF-ABGLEICH (LW)(2)	(D) 323kHz 400Hz.30% mod	(B)	323kHz	TC2	Maximale Amplitude und Symmetrie des Oszilloskopbildes.	
Abstimmungen (7) und (8) mehrere Male wiederholen.							

ADJUSTMENT/REGLAGES/ABGLEICH

CONNECTION



KENWOOD

Specifications (KT-880)

[FM tuner section]	
Usable sensitivity	10.8 dBf (0.95 μV)
50dB quieting sensitivity	
Mono	16.2 dBf (1.8 μV)
Stereo	38.8 dBf (24.0 μV)
Signal to noise ratio	
Mono	88 dB at 65 dBf, 88 dB at 85 dBf
Stereo	76 dB at 65 dBf, 83 dB at 85 dBf
Total harmonic distortion	
Mono: 100 Hz	0.020%
1 kHz	0.018%
50 Hz ~ 10 kHz	0.020%
Stereo: 100 Hz	0.040%
1 kHz	0.020%
50 Hz ~ 10 kHz	0.1%
Capture ratio	1.0 dB (2.5 dB for European model)
Alternate channel selectivity	65 dB
Stereo separation	
1 kHz	68 dB
50 Hz ~ 10 kHz	35 dB
15 kHz	35 dB
Frequency response	20 Hz to 15 kHz +0.2 dB, −1.0 dB
Spurious rejection ratio	100 dB
Image rejection ratio	78 dB
IF rejection ratio	100 dB
AM suppression ratio	70 dB
Subcarrier suppression ratio	67 dB
Antenna impedance	75 ohms unbalanced
FM frequency range	87.5 MHz to 108 MHz
Output level/impedance at 1 kHz, 100% dev.	
Fixed	0.6V/3.3 kΩ
[AM tuner section]	
Usable sensitivity	10 μV
Signal to noise ratio	50 dB
Total harmonic distortion	0.3%
Image rejection	40 dB
Selectivity	30 dB
Output level/impedance (400 Hz, 30% Mod.)	0.18V, 3.3 kΩ
[General]	
Power requirement	120V, 60 Hz (U.S.A. and Canada models) 120/220 – 240V, (Switchable) 50/60 Hz (Others)
Power consumption	10 W
Dimensions	W: 440 mm (17-5/16") H: 64 mm (2-1/2") D: 317 mm (12-1/2")
Weight (Net)	3.3 kg (7.3 lb)

QUARTZ SYNTHESIZER AM-FM STEREO TUNER

Specifications (KT-880L)

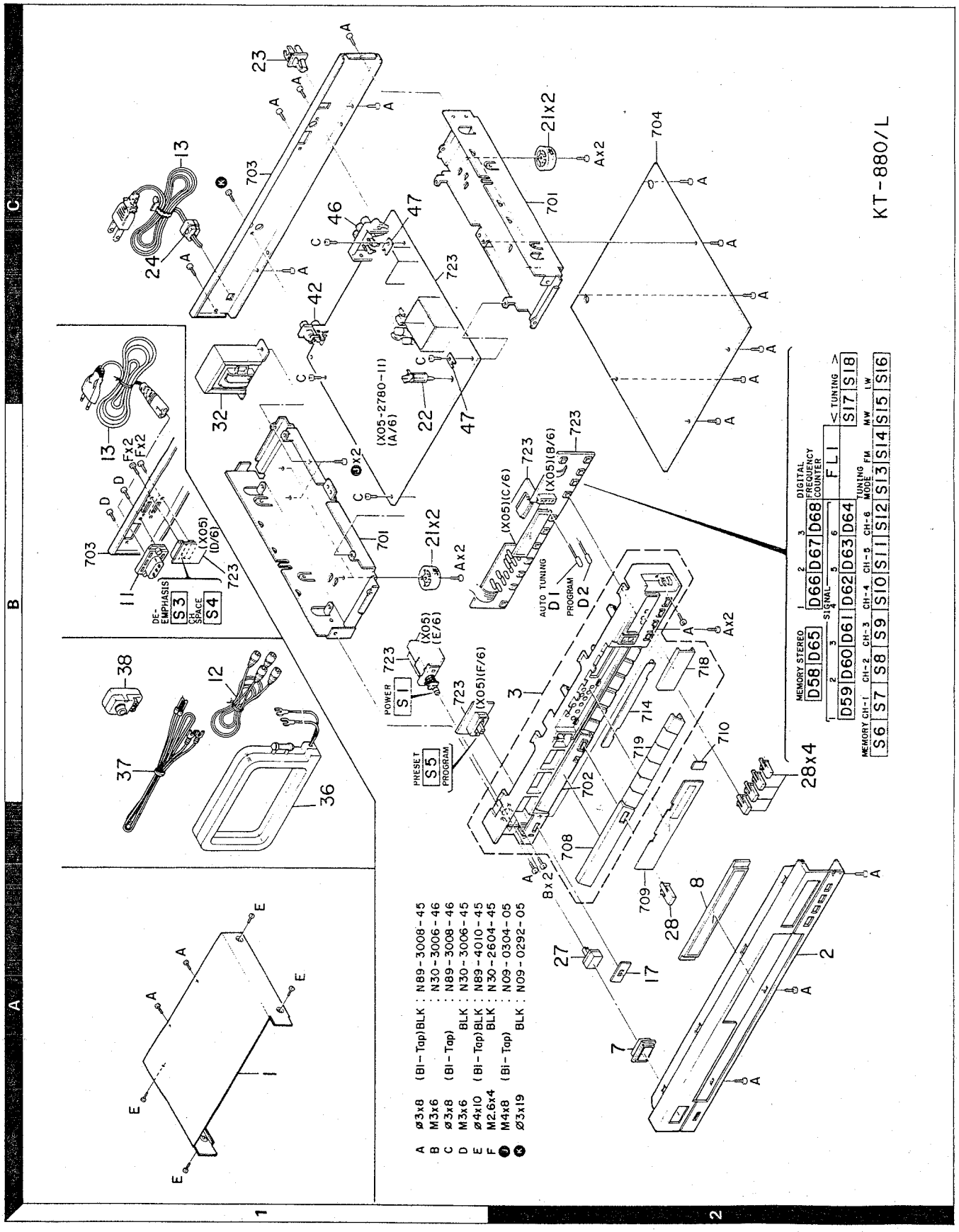
[FM tuner section]
Sensitivity at 75 ohms
Mono: S/N 26 dB, 40 kHz dev ..... 0.5 μV
Stereo: S/N 46 dB, 46 kHz dev ..... 24.0 μV
Limiting level
–3 dB point, 40 kHz dev ..... 0.45 μV
Frequency response ..... 20 Hz ~ 15 kHz, +0.2 dB, –1.0 dB
Total harmonic distortion
Mono: 1 kHz, 40 kHz dev 0.09%
Stereo: 1 kHz, 46 kHz dev 0.30%
S/N weighted (IEC-A)
Mono: 40 kHz dev., 1 mV input ..... 78.0 dB
Stereo: 46 kHz dev., 1 mV input ..... 67.0 dB
S/N unweighted
Mono: 40 kHz dev., 1 mV input ..... 72.0 dB
Stereo: 46 kHz dev., 1 mV input ..... 67.0 dB
FM stereo separation: 1 mV input
250 Hz ..... 45 dB
1 kHz ..... 50 dB
6.3 kHz ..... 41 dB
12.5 kHz ..... 32 dB
Image rejection ratio ..... 78 dB
IF rejection ratio ..... 100 dB
AM suppression ratio ..... 70 dB
Spurious rejection ratio ..... 100 dB
Capture ratio ..... 2.5 dB
Subcarrier suppression
19 kHz: 46 kHz dev. ..... 55 dB
38 kHz: 46 kHz dev. ..... 62 dB
Alternate channel selectivity
±300 kHz, 20 dB input ..... 85 dB

[MW tuner section]
Usable sensitivity ..... 10 μV
S/N ratio: 1 mV inpuit ..... 50 dB
Image rejection ratio ..... 40 dB
Total harmonic distortion 0.3%
Selectivity ..... 30 dB

[LW tuner section]
Usable sensitivity ..... 10 μV
S/N ratio: 1 mV input ..... 46 dB
Image rejection ratio ..... 40 dB
Total harmonic distortion 0.6%
Selectivity ..... 36 dB

[General]
Power requirements ..... 50/60 Hz, 120/220-240V, Switchable
Power consumption
IEC 10W
Dimensions (W × H × D) ..... 440 × 64 × 317 mm
Weight (Net) ..... 3.3 kg

EXPLODED VIEW



Parts with the exploded numbers larger than 700 are not supplied.

PARTS LIST

* New Parts
Parts without **Parts No.** are not supplied.
Les articles non mentionnes dans le **Parts No.** ne sont pas fournis.
Teile ohne **Parts No.** werden nicht geliefert.

Ref. No. 参照番号	Address 位置	New Parts 新	Parts No. 部品番号	Description 部品名／規格	Destination 仕向	Remarks 備考
			KT-880			
1	1A	*	A01-1353-01	METALLIC CABINET		
2	2A	*	A20-4116-02	PANEL	KPUM	
2	2A	*	A20-4116-02	PANEL	UEX	
2	2A	*	A20-4117-02	PANEL	T	
2	2A	*	A20-4118-02	PANEL	E	
3	2B	*	A22-0469-03	SUB PANEL ASSY		
7	2A		B07-1066-04	ESCUTCHEON (POWER)		
8	2A	*	B10-0558-03	FRONT GLASS		
-			B46-0092-03	WARRANTY CARD	K	
-			B46-0094-03	WARRANTY CARD	UUE	
-			B46-0095-03	WARRANTY CARD	UUE	
-			B46-0096-03	WARRANTY CARD	X	
-			B46-0121-03	WARRANTY CARD	P	
-			B46-0122-03	WARRANTY CARD	E	
-			B46-0123-03	WARRANTY CARD	T	
-		*	B50-5402-00	INSTRUCTION MANUAL(ENGLISH)	KPUM	
-		*	B50-5402-00	INSTRUCTION MANUAL(ENGLISH)	UEX	
-		*	B50-5403-00	INSTRUCTION MANUAL(FRENCH)	PMX	
-		*	B50-5404-00	INSTRUCTION MANUAL(SPANISH)	M	
-		*	B50-5405-00	INSTRUCTION MANUAL(ENGLISH)	T	
-		*	B50-5406-00	INSTRUCTION MANUAL(E,F,G,I,D)	E	
-			B58-0223-04	CAUTION CARD (PRESET 120V)	U	
-			B58-0245-23	CAUTION CARD	E	
-			B58-0269-04	CAUTION CARD	K	
-			B58-0513-04	CAUTION CARD (PRESET 220-240)	UE	
-			B59-0092-00	SERVICE DIRECTORY	UUE	
D1 ,2	2B		B30-0431-05	LED(LN21CPH)TUNING,PROGRAM)		
⚠ 11	1B		E03-0102-15	AC INLET	UMUEX	
⚠ 11	1B		E03-0102-15	AC INLET	TE	
12	1B		E30-0505-05	AUDIO CORD		
⚠ 13	1C		E30-0181-05	AC POWER CORD	KP	
⚠ 13	1B		E30-1305-15	AC POWER CORD (INLET)	UMUE	
⚠ 13	1B		E30-1328-15	AC POWER CORD (INLET)	T	
⚠ 13	1B		E30-1329-05	AC POWER CORD (INLET)	E	
⚠ 13	1B		E30-1342-05	AC POWER CORD (INLET)	X	
17	2A		F19-0349-04	BLIND PLATE (POWER)		
-		*	H01-5265-04	ITEM CARTON CASE	KPUM	
-		*	H01-5265-04	ITEM CARTON CASE	UEX	
-		*	H01-5266-04	ITEM CARTON CASE	T	
-		*	H01-5267-04	ITEM CARTON CASE	E	
-			H10-1671-23	POLYSTYRENE FOAMED FIXTURE		
-			H25-0078-04	PROTECTION BAG (235X315)		
-			H25-0181-04	PROTECTION BAG (150X260X0.05)		
-			H25-0224-04	PROTECTION BAG (800X400)		
21	1B,2C		J02-0130-05	FOOT		
22	1B		J19-0515-05	UNIT HOLDER		
23	1C		J19-0626-12	ANTENNA HOLDER		
⚠ 24	1C		J42-0083-05	POWER CORD BUSHING	KP	
-			J61-0307-05	WIRE BAND		
27	2A		K27-1082-04	KNOB (BUTTON) POWER		

E: Scandinavia & Europe H:Audio Club K: USA P: Canada
S: South Africa T: England U: PX(Far East, Hawaii)
UE: AAFES(Europe) X: Australia M: Other Areas

⚠ indicates safety critical components.

PARTS LIST

＊New Parts
Parts without **Parts No.** are not supplied.
Les articles non mentionnes dans le **Parts No.** ne sont pas fournis.
Teile ohne **Parts No.** werden nicht geliefert.

Ref. No. 参照番号	Address 位置	New Parts 新	Parts No. 部品番号	Description 部品名／規格	Destination 仕向	Remarks 備考
28	2A,2B		K29-1924-04	KNOB(BTN)MEM,TUN,MODE,FM,MW,LW		
⚠ 32	1B	＊	L01-3911-05	POWER TRANSFORMER	KP	
⚠ 32	1B	＊	L01-3914-05	POWER TRANSFORMER	UMUEX	
⚠ 32	1B	＊	L01-3914-05	POWER TRANSFORMER	TE	
J	1B		N09-0304-05	TAPTITE SCREW(M4X8) PWR TRANSF		
K	1C		N09-0292-05	STEPPED SCREW(Ø3X19)PHONO JACK	TE	
36	1B		T90-0104-15	LOOP ANTENNA	KPUM	
36	1B		T90-0104-15	LOOP ANTENNA	UEX	
36	1B		T90-0111-15	LOOP ANTENNA	TE	
37	1B		T90-0132-05	T TYPE ANTENNA (FM)		
38	1B		T90-0136-05	ANTENNA ADAPTOR		
TUNER (X05-2780-11)						
D58 -68	2B		B30-0431-05	LED(LN21CPH)MEM,STEREO,SIGNAL		
C2			CC45FSL1H070D	CERAMIC 7.0PF D		
C3			CC45FPH1H390J	CERAMIC 39PF J		
C4			CC45FTH1H100D	CERAMIC 10PF D		
C5			CC45FSL1H010C	CERAMIC 1.0PF C		
C6			CK45FF1H103Z	CERAMIC 0.010UF Z		
C7 ,8			CK45FB1H102K	CERAMIC 1000PF K		
C9			CC45FPH1H390J	CERAMIC 39PF J		
C10			CC45FTH1H120J	CERAMIC 12PF J		
C11			CC45FSL1H020C	CERAMIC 2.0PF C		
C12			CK45FF1H103Z	CERAMIC 0.010UF Z		
C13			CC45FPH1H390J	CERAMIC 39PF J		
C14			CC45FTH1H080D	CERAMIC 8.0PF D		
C15			CC45FSL1H010C	CERAMIC 1.0PF C		
C16 ,17			CC45FSL1H100D	CERAMIC 10PF D		
C18			CK45FB1H681K	CERAMIC 680PF K		
C19			CK45FF1H103Z	CERAMIC 0.010UF Z		
C20			CC45FSL1H050C	CERAMIC 5.0PF C		
C21			CC45FPH1H330J	CERAMIC 33PF J		
C22		＊	CC45FRH1H030C	CERAMIC 3.0PF C		
C23			CC45FTH1H080D	CERAMIC 8.0PF D		
C24			C91-0769-05	CERAMIC 0.01UF M		
C25			CC45FSL1H150J	CERAMIC 15PF J		
C26			CC45FSL1H330J	CERAMIC 33PF J		
C27			CC45FSL1H020C	CERAMIC 2.0PF C		
C28			CC45FSL1H470J	CERAMIC 47PF J		
C29			CK45FF1H103Z	CERAMIC 0.010UF Z		
C30			CE04FW1C470M	ELECTRO 47UF 16WV		
C31			CK45FF1H103Z	CERAMIC 0.010UF Z		
C32			CC45FSL1H390J	CERAMIC 39PF J		
C33			CK45FF1H103Z	CERAMIC 0.010UF Z		
C35 -43			C91-0769-05	CERAMIC 0.01UF M		
C44 ,45			CE04FW1H010M	ELECTRO 1.0UF 50WV		
C46			CK45FF1H473Z	CERAMIC 0.047UF Z		
C47			CE04FW1HR47M	ELECTRO 0.47UF 50WV		
C48			C91-0769-05	CERAMIC 0.01UF M		
C49			CE04FW1H010M	ELECTRO 1.0UF 50WV		
C50 ,51			C91-0769-05	CERAMIC 0.01UF M		
C55 -60			C91-0769-05	CERAMIC 0.01UF M		
C61			CE04FW1C101M	ELECTRO 100UF 16WV		
C63			CC45FSL1H220J	CERAMIC 22PF J		

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C64			CE04HW1E100M	NP-ELEC	10UF	25WV		
C65			CK45FB1H561K	CERAMIC	560PF	K		
C66,67			C91-0769-05	CERAMIC	0.01UF	M		
C68,69			CC45FSL1H330J	CERAMIC	33PF	J		
C70			CE04FW1C101M	ELECTRO	100UF	16WV		
C71			CE04FW1A470M	ELECTRO	47UF	10WV		
C73		*	CC45FUJ1H100D	CERAMIC	10PF	D		
C77			CE04HW1E100M	NP-ELEC	10UF	25WV		
C78,79			CE04FW1C100M	ELECTRO	10UF	16WV		
C80,81			CE04FW1A470M	ELECTRO	47UF	10WV		
C82			CE04FW1C101M	ELECTRO	100UF	16WV		
C83			CE04FW1C100M	ELECTRO	10UF	16WV		
C84			CQ09FS1H221JYO	POLYSTY	220PF	J	KPX	
C85			CE04HW1E100M	NP-ELEC	10UF	25WV	KPX	
C86			CF92FV1H102J	MF	1000PF	J	KPX	
C93			CF92FV1H683J	MF	0.068UF	J		
C94			CE04FW1C101M	ELECTRO	100UF	16WV		
C95			CE04FW1A471M	ELECTRO	470UF	10WV		
C100			CQ09FS1H391JYO	POLYSTY	390PF	J		
C101			CF92FV1H272J	MF	2700PF	J		
C102			CE04GW1E4R7M	LL-ELEC	4.7UF	25WV		
C103			CE04GW1HR47M	LL-ELEC	0.47UF	50WV		
C104			CE04GW1E100M	LL-ELEC	10UF	25WV		
C105			CF92FV1H473J	MF	0.047UF	J		
C106			CE04FW1C471M	ELECTRO	470UF	16WV		
C107			CE04FW1C330M	ELECTRO	33UF	16WV		
C108,109			CE04FW1H010M	ELECTRO	1.0UF	50WV		
C110			CE04FW1A471M	ELECTRO	470UF	10WV		
C111,112			CF92FV1H242J	MF	2400PF	J	XTE	
C111,112			CF92FV1H362J	MF	3600PF	J	KPUM	
C111,112			CF92FV1H362J	MF	3600PF	J	UE	
C113,114			CF92FV1H822J	MF	8200PF	J	UMUE	
C115,116			CE04FW1C100M	ELECTRO	10UF	16WV		
C117,118			CF92FV1H472J	MF	4700PF	J		
C119,120			CE04FW1C100M	ELECTRO	10UF	16WV		
C121			CC45FSL1H221J	CERAMIC	220PF	J		
C122			CE04FW1V4R7M	ELECTRO	4.7UF	35WV		
C125			C91-0769-05	CERAMIC	0.01UF	M	TE	
C126			CC45FSL1H150J	CERAMIC	15PF	J	TE	
C127-130			CK45FF1H223Z	CERAMIC	0.022UF	Z	TE	
C128			CK45FF1H223Z	CERAMIC	0.022UF	Z	KPUM	
C128			CK45FF1H223Z	CERAMIC	0.022UF	Z	UEX	
C131			CQ09FS1H121JYO	POLYSTY	120PF	J	TE	
C132			CC45FCH1H390J	CERAMIC	39PF	J	TE	
C133			CQ09FS1H391JYO	POLYSTY	390PF	J		
C134			CK45FF1H223Z	CERAMIC	0.022UF	Z		
C135			CC45FUJ1H070D	CERAMIC	7.0PF	D		
C136			CK45FF1H223Z	CERAMIC	0.022UF	Z	TE	
C137			CC45FSL1H101J	CERAMIC	100PF	J	TE	
C138			CK45FF1H223Z	CERAMIC	0.022UF	Z	TE	
C139			C91-0769-05	CERAMIC	0.01UF	M		
C140			CE04FW1C470M	ELECTRO	47UF	16WV		
C141,142			CE04FW1V4R7M	ELECTRO	4.7UF	35WV		
C143			CK45FF1H473Z	CERAMIC	0.047UF	Z		
C144			C91-0769-05	CERAMIC	0.01UF	M		

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C145			CE04FW1HR47M	ELECTRO 0.47UF 50WV		
C146			CK45FF1H103Z	CERAMIC 0.010UF Z		
C147			CK45FB1H102K	CERAMIC 1000PF K		
C148			CK45FF1H223Z	CERAMIC 0.022UF Z		
C149			C91-0757-05	CERAMIC 0.001UF K		
C150-152			CK45FF1H223Z	CERAMIC 0.022UF Z		
C153			CE04FW1C100M	ELECTRO 10UF 16WV		
C160			CE04FW1A101M	ELECTRO 100UF 10WV		
C161			CE04FW1C100M	ELECTRO 10UF 16WV		
C162			CE04FW1V100M	ELECTRO 10UF 35WV		
C163,164			CE04FW1H010M	ELECTRO 1.0UF 50WV		
C165,166			CE04FW1A470M	ELECTRO 47UF 10WV		
C167,168			CK45FB1H102K	CERAMIC 1000PF K		
C169			CE04FW1V330M	ELECTRO 33UF 35WV		
C170			CE04FW1E102M	ELECTRO 1000UF 25WV		
C171			CE04FW1V221M	ELECTRO 220UF 35WV		
C172			CE04FW1H331M	ELECTRO 330UF 50WV		
C173			CK45FF1H103Z	CERAMIC 0.010UF Z		
C174			CE04FW1C220M	ELECTRO 22UF 16WV		
C175			CE04FW1H010M	ELECTRO 1.0UF 50WV		
C176-178			CK45FF1H103Z	CERAMIC 0.010UF Z		
C179			CE04FW1E331M	ELECTRO 330UF 25WV		
C180-183			CK45FF1H103Z	CERAMIC 0.010UF Z		
C188			CE04FW1H010M	ELECTRO 1.0UF 50WV		
C189			CE04FW1HR47M	ELECTRO 0.47UF 50WV		
C190			CK45FF1H223Z	CERAMIC 0.022UF Z		
C191			CE04FW1V330M	ELECTRO 33UF 35WV		
C192			CE04FW1H010M	ELECTRO 1.0UF 50WV	TE	
C193			CK45FB1H222K	CERAMIC 2200PF K		
C194,195			C91-0769-05	CERAMIC 0.01UF M		
C196			CE04FW0J221M	ELECTRO 220UF 6.3WV		
C201			CK45FB1H102K	CERAMIC 1000PF K		
C202			CK45FF1H223Z	CERAMIC 0.022UF Z		
C203			CE04FW1HR22M	ELECTRO 0.22UF 50WV		
C204			CK45FF1H473Z	CERAMIC 0.047UF Z		
C205			CK45FF1H103Z	CERAMIC 0.010UF Z		
C298			CK45F1H103Z	CERAMIC 0.010UF Z	TE	
C299			CK45FF1H103Z	CERAMIC 0.010UF Z		
C300-302			CE04FW1HR47M	ELECTRO 0.47UF 50WV	TE	
C301,302			CE04FW1HR47M	ELECTRO 0.47UF 50WV	KPUM	
C301,302			CE04FW1HR47M	ELECTRO 0.47UF 50WV	UEX	
C303			CE04FW1H3R3M	ELECTRO 3.3UF 50WV		
C304			CK45FF1H103Z	CERAMIC 0.010UF Z		
C305			C90-1287-05	ELECTRO 2200UF 16WV		
C306,307			CC45FCH1H330J	CERAMIC 33PF J		
C308,309			CE04FW1H2R2M	ELECTRO 2.2UF 50WV		
C310			CE04FW1C100M	ELECTRO 10UF 16WV		
C311-313			C91-0757-05	CERAMIC 0.001UF K		
C314,315			CK45FF1H103Z	CERAMIC 0.010UF Z		
TC1			C05-0302-05	CERAMIC TRIMMER CAPACITOR(11PF	KPUM	
TC1			C05-0302-05	CERAMIC TRIMMER CAPACITOR(11PF	UEX	
TC1 ,2			C05-0302-05	CERAMIC TRIMMER CAPACITOR(11PF	TE	
TC3			C05-0303-05	CERAMIC TRIMMER CAPACITOR(20PF		
TC4 ,5			C05-0302-05	CERAMIC TRIMMER CAPACITOR(11PF	TE	
TC5			C05-0302-05	CERAMIC TRIMMER CAPACITOR(11PF	KPUM	

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TC5			C05-0302-05	CERAMIC TRIMMER CAPACITOR(11PF	UEX	
42	1C		E13-0217-05	PHONO JACK (2P)		
46	1C		E20-0318-05	SCREW TERMINAL BOARD (2P)		
47	1B,1C		E23-0125-05	TERMINAL GND		
CF1			L72-0185-05	CERAMIC FILTER (MXH15-A)	KPUM	
CF1			L72-0185-05	CERAMIC FILTER (MXH15-A)	UEX	
CF1			L72-0195-05	CERAMIC FILTER (MJGH15-A)	TE	
CF2			L72-0190-05	CERAMIC FILTER (MS3GH15-A)	TE	
CF2			L72-0505-05	CERAMIC FILTER (MP3H15-A)	KPUM	
CF2			L72-0505-05	CERAMIC FILTER (MP3H15-A)	UEX	
CF3			L72-0099-05	CERAMIC FILTER (450KHZ)		
L1			L31-0495-05	FM-RF COIL		
L2			L31-0492-05	FM-RF COIL		
L3			L31-0495-05	FM-RF COIL		
L4		*	L40-3382-14	SMALL FIXED INDUCTOR(0.33UH,M)		
L5			L32-0270-05	FM OSCILLATING COIL		
L6			L39-0089-05	PEAKING COIL (120KHZ)		
L7			L40-1001-14	SMALL FIXED INDUCTOR(10UH,K)		
L8			L40-1092-14	SMALL FIXED INDUCTOR(10UH,M)		
L9			L79-0154-05	LC FILTER		
L10			L79-0125-05	LC FILTER (B.P.F)		
L11			L40-1092-14	SMALL FIXED INDUCTOR(1.0UH,M)	UMUE	
T1			L30-0416-05	FM IFT		
T2			L30-0361-15	FM IFT		
T3			L30-0416-05	FM IFT		
T4			L32-0294-05	FM OSCILLATING COIL		
T5			L32-0278-05	LW OSCILLATING COIL	TE	
T6			L32-0277-15	MW OSCILLATING COIL		
T7			L31-0479-05	LW-RF COIL	TE	
T8			L31-0472-05	MW-RF COIL		
T9			L30-0362-05	AM IFT		
X1			L77-0578-05	CRYSTAL RESONATOR (7.2MHZ)		
CP1 ,2			R90-0544-05	MULTI-COMP 0.01UF X3		
CP3			R90-0193-05	MULTI-COMP 47KX9 J 1/6W		
CP4			R90-0192-05	MULTI-COMP 47KX13 J 1/6W		
R1			RC05GF2H185M	RC 1.8M M 1/2W	KP	
R29			RD14AB2E470J	FL-PROOF RD 47 J 1/4W	KPXTE	
R54			RD14AB2E470J	FL-PROOF RD 47 J 1/4W	KPXTE	
R75			RD14AB2E101J	FL-PROOF RD 100 J 1/4W	KPXTE	
R138			RN14BK2C1782F	RN 17.8K F 1/6W		
R149		*	RD14AB2E270J	FL-PROOF RD 27 J 1/4W	KPXTE	
R150			RD14AB2E101J	FL-PROOF RD 100 J 1/4W	KPXTE	
R207		*	RD14AB2E270J	FL-PROOF RD 27 J 1/4W	KPXTE	
R231			RS14DB3A101J	FL-PROOF RS 100 J 1W		
R253			RD14AB2E101J	FL-PROOF RD 100 J 1/4W	KPXTE	
R257		*	RD14AB2E270J	FL-PROOF RD 27 J 1/4W	KPXTE	
R331			R92-0173-05	RC 2.2M M 1/2W	KP	
VR1			R12-2305-05	TRIMMING POT.(5K) DISTORTION		
VR2 ,3			R12-3313-05	TRIMMING POT.(20K)DISTORTION	KPX	
VR4			R12-2305-05	TRIMMING POT.(5K) VCO		
VR5			R12-4306-05	TRIMMING POT.(50K)SEPARATION		
S1	1B		S40-4053-05	PUSH SWITCH (POWER)		
S3 ,4	1B		S31-2072-05	SLIDE SW(DE-EMPHASIS,CH SPACE)	UMUE	

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S5	1B		S31-2062-05	SLIDE SWITCH (PRESET/PROGRAM)		
S6 -15	2B		S40-1064-05	PUSH SWITCH (OPERATION SW)	KPUM	
S6 -15	2B		S40-1064-05	PUSH SWITCH (OPERATION SW)	UEX	
S6 -18	2B		S40-1064-05	PUSH SW(OPERATION SW,LW,TUNING	TE	
S17 ,18	2B		S40-1064-05	PUSH SWITCH (TUNING)	KPUM	
S17 ,18	2B		S40-1064-05	PUSH SWITCH (TUNING)	UEX	
D1 -4			KV1320-4	VARIABLE CAPACITANCE DIODE		
D5 -9			1S1555	DIODE		
D5 -9			1S2076	DIODE		
D10 ,11			KV1320-2	VARIABLE CAPACITANCE DIODE		
D12			1S1555	DIODE		
D12			1S2076	DIODE		
D13			RD5.1E(B2)	ZENER DIODE		
D14 ,15			1S1555	DIODE	TE	
D14 ,15			1S2076	DIODE	TE	
D15			1S1555	DIODE	KPUM	
D15			1S1555	DIODE	UEX	
D15			1S2076	DIODE	KPUM	
D15			1S2076	DIODE	UEX	
D16 ,17			KV1226(EF)	VARIABLE CAPACITANCE DIODE	TE	
D16 ,17			KV1226(X)	DIODE	TE	
D17			KV1226(EF)	VARIABLE CAPACITANCE DIODE	KPUM	
D17			KV1226(EF)	VARIABLE CAPACITANCE DIODE	UEX	
D17			KV1226(X)	VARIABLE CAPACITANCE DIODE	KPUM	
D17			KV1226(X)	VARIABLE CAPACITANCE DIODE	UEX	
D18 -22			1S1555	DIODE	TE	
D18 -22			1S2076	DIODE	TE	
D32			1S1555	DIODE		
D32			1S2076	DIODE		
D34			1S1555	DIODE		
D34			1S2076	DIODE		
D35			RD8.2E(B2)	ZENER DIODE		
D36			1S1555	DIODE		
D36			1S2076	DIODE		
D37 -40			DSM1A1	DIODE		
D41			1S1555	DIODE		
D41			1S2076	DIODE		
D42 ,43			1S2076A	DIODE		
D44 -47			DSM1A1	DIODE		
D48 -55			1S1555	DIODE	TE	
D48 -55			1S2076	DIODE	TE	
D48 ,49			1S1555	DIODE	KPUM	
D48 ,49			1S1555	DIODE	UEX	
D48 ,49			1S2076	DIODE	KPUM	
D48 ,49			1S2076	DIODE	UEX	
D52			1S1555	DIODE	KPUM	
D52			1S1555	DIODE	UEX	
D52			1S2076	DIODE	KPUM	
D52			1S2076	DIODE	UEX	
D54			1S1555	DIODE	KPUM	
D54			1S1555	DIODE	UEX	
D54			1S2076	DIODE	KPUM	
D54			1S2076	DIODE	UEX	
FL1	2B		7-BT-20ZK	FLUORESCENT INDICATOR TUBE	KPUM	

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FL1	2B		7-BT-20ZK	FLUORESCENT INDICATOR TUBE	UEX	
FL1	2B		7-BT-22ZK	FLUORESCENT INDICATOR TUBE	TE	
IC1			TA7060AP	IC(FM-IF AMP)		
IC2			LA1231NS	IC(FM-IF AMP)		
IC3			UPC1163H	IC(IF AMP)		
IC4			NJM4560D-N	IC(OP AMP X2)		
IC5			AN6556	IC(OP AMP X2)		
IC6			UPC1223C	IC(MPX)		
IC7			LA1245	IC(AM)		
IC8			UPC78M05H	IC(VOLTAGE REGULATOR/ +5V)		
IC9			TD6104P	IC(PRE SCALER)		
IC10			UPD4027BC	IC(JK FLIP-FLOP X2)		
IC11			TC9147BP	IC(DIGITAL TUNING SYSTEM)	TE	
IC11			TC9157AP	IC(DIGITAL TUNING SYSTEM)	KPUM	
IC11			TC9157AP	IC(DIGITAL TUNING SYSTEM)	UEX	
IC12			TD6301AP	IC(FL/LED/LCD FREQ DISPLAY DR)		
Q1 ,2			3SK73(GR)	FET		
Q3			2SK241(GR)	FET		
Q4 -6			2SC1923(R,O)	TRANSISTOR		
Q7 ,8			2SK161(Y,GR)	FET		
Q9			2SC2320(E,F)	TRANSISTOR		
Q9			2SC945(A)(Q,P)	TRANSISTOR		
Q10 ,11			2SK301(Q,R)	FET		
Q12			2SA733(A)(Q,P)	TRANSISTOR		
Q12			2SA999(E,F)	TRANSISTOR		
Q13			2SC2320(E,F)	TRANSISTOR	KP	
Q13			2SC2320(E,F)	TRANSISTOR	X	
Q13			2SC945(A)(Q,P)	TRANSISTOR	KPX	
Q14			2SK246(Y,GR)	FET		
Q15			2SA733(A)(Q,P)	TRANSISTOR		
Q15			2SA999(E,F)	TRANSISTOR		
Q16			2SC2320(E,F)	TRANSISTOR	KP	
Q16			2SC2320(E,F)	TRANSISTOR	UMUE	
Q16			2SC945(A)(Q,P)	TRANSISTOR	KPUM	
Q16			2SC945(A)(Q,P)	TRANSISTOR	UEX	
Q16 ,17			2SC2320(E,F)	TRANSISTOR	TE	
Q16 ,17			2SC945(A)(Q,P)	TRANSISTOR	TE	
Q18 ,19			2SC2878	TRANSISTOR		
Q20			2SK161(Y,GR)	FET	TE	
Q21			2SC2320(E,F)	TRANSISTOR	TE	
Q21			2SC945(A)(Q,P)	TRANSISTOR	TE	
Q22			2SK161(Y,GR)	FET	TE	
Q23			2SA733(A)(Q,P)	TRANSISTOR		
Q23			2SA999(E,F)	TRANSISTOR		
Q24			2SC2320(E,F)	TRANSISTOR		
Q24			2SC945(A)(Q,P)	TRANSISTOR		
Q25			2SA733(A)(Q,P)	TRANSISTOR		
Q25			2SA999(E,F)	TRANSISTOR		
Q26 ,27			2SC2320(E,F)	TRANSISTOR		
Q26 ,27			2SC945(A)(Q,P)	TRANSISTOR		
Q28			2SD863(E,F)	TRANSISTOR		
Q29			2SD882(Q,P)	TRANSISTOR		
Q30			2SA733(A)(Q,P)	TRANSISTOR		
Q30			2SA999(E,F)	TRANSISTOR		
Q31 ,32			2SC2320(E,F)	TRANSISTOR		

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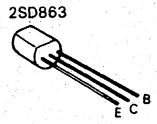
Ref. No. 参照番号	Address 位置	New Parts 新	Parts No. 部品番号	Description 部品名／規格	Destination 仕向	Remarks 備考
Q31 ,32			2SC945(A)(Q,P)	TRANSISTOR		
Q33			2SA733(A)(Q,P)	TRANSISTOR		
Q33			2SA999(E,F)	TRANSISTOR		
Q34			2SC2320(E,F)	TRANSISTOR		
Q34			2SC945(A)(Q,P)	TRANSISTOR		
Q35 ,36			2SK364(GR,BL)	FET	TE	
Q36			2SK364(GR,BL)	FET	KPUM	
Q36			2SK364(GR,BL)	FET	UEX	
Q37 ,38			2SA733(A)(Q,P)	TRANSISTOR		
Q37 ,38			2SA999(E,F)	TRANSISTOR		
Q39			2SC2320(E,F)	TRANSISTOR		
Q39			2SC945(A)(Q,P)	TRANSISTOR		
Q40 ,41			2SA733(A)(Q,P)	TRANSISTOR		
Q40 ,41			2SA999(E,F)	TRANSISTOR		
Q42			2SC2320(E,F)	TRANSISTOR		
Q42			2SC945(A)(Q,P)	TRANSISTOR		
Q43			2SA733(A)(Q,P)	TRANSISTOR	TE	
Q43			2SA999(E,F)	TRANSISTOR	TE	
Q44 ,45			2SC2320(E,F)	TRANSISTOR	TE	
Q44 ,45			2SC945(A)(Q,P)	TRANSISTOR	TE	
Q45			2SC2320(E,F)	TRANSISTOR	KP	
Q45			2SC2320(E,F)	TRANSISTOR	UMUE	
Q45			2SC2320(E,F)	TRANSISTOR	X	
Q45			2SC945(A)(Q,P)	TRANSISTOR	KPUM	
Q45			2SC945(A)(Q,P)	TRANSISTOR	UEX	
Q46 ,47			2SA733(A)(Q,P)	TRANSISTOR		
Q46 ,47			2SA999(E,F)	TRANSISTOR		
Q48			2SC2320(E,F)	TRANSISTOR		
Q48			2SC945(A)(Q,P)	TRANSISTOR		
Q49			2SA954(L,K)	TRANSISTOR		
Q50			2SC2320(E,F)	TRANSISTOR	KP	
Q50			2SC945(A)(Q,P)	TRANSISTOR	KP	
Q50 -53			2SC2320(E,F)	TRANSISTOR	UMUE	
Q50 -53			2SC2320(E,F)	TRANSISTOR	X	
Q50 -53			2SC2320(E,F)	TRANSISTOR	TE	
Q50 -53			2SC945(A)(Q,P)	TRANSISTOR	UMUEX	
Q50 -53			2SC945(A)(Q,P)	TRANSISTOR	TE	
Q53			2SC2320(E,F)	TRANSISTOR	KP	
Q53			2SC945(A)(Q,P)	TRANSISTOR	KP	

E: Scandinavia & Europe H:Audio Club K: USA P: Canada
S: South Africa T: England U: PX(Far East, Hawaii)
UE: AAFES(Europe) X: Australia M: Other Areas

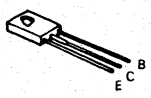
⚠ indicates safety critical components.

FM ANT.
GND
AM LOOP ANT.
FM RF AMP
MIX
IF AMP
IF AMP CONTROL
BUFFER
OSC
AM
FM
MUTING CONTROL
MPX PRE AMP
VT
DTS
PROGRAM CH LATCH
AUTO TUNING
ST SIGNAL
MEMORY
AUTO/MANU
(X05-2780-11)(B/6)
(X05-2780-11)(F/6)
(X05-2780-11)(C/6)
T. CENTER

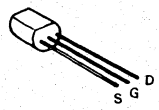
2SA733 (A)
2SA954
2SA999
2SC1923
2SC2320
2SC2878
2SC945 (A)
2SD863



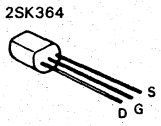
2SD882



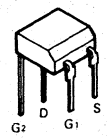
2SK246



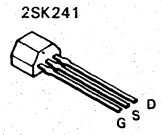
2SK301
2SK364



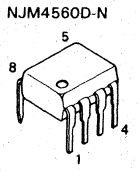
3SK73



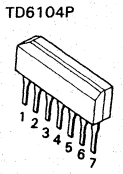
2SK161
2SK241



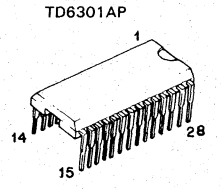
NJM4560D-N



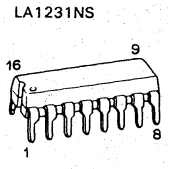
TD6104P



TD6301AP



LA1231NS



UPD4027BC

LA1245

UPC1163H

AN6556

TC9147BP
TC9157AP

UPC1223C

UPC78M05H

TA7060AP

IC1	: TA7060AP
IC2	: LA1231NS
IC3	: μPC1163H
IC4	: NJM4560D-N
IC5	: AN6556
IC6	: μPC1223C
IC7	: LA1245
IC8	: μPC78M05H
IC9	: TD6104P
IC10	: μPD4027BC
IC11	: TC9147BP or TC9157AP
IC12	: TD6301AP
Q1,2	: 3SK73(GR)
Q3	: 2SK241(GR)
Q4～6	: 2SC1923(R,O)
Q7,8,20,22	: 2SK161(Y,GR)
Q9,13,16,17,21,24,26,27,31,32,34,39,42,44,45,48,50,51～53	: 2SC945(A)(Q,P)
Q14	: 2SK246(Y,GR)
Q12,15,23,25,30,33,37,38,40,41,43,46,47	: 2SA733(A)(Q,P)
Q18,19	: 2SC2878
Q28	: 2SD863(E,F)
Q29	: 2SD882(Q,P)
Q35,36	: 2SK364(GR,BL)
Q49	: 2SA954(L,K)
Q10,11	: 2SK301(Q,R)
D1～4,10,11	: KV1320
D5～9,12,14,15,18～22,32,34,36,41,49～51,53～55	: 1S2076
D13	: RD5.1E(B2)
D16,17	: KV1226(E,F)(X)
D35	: RD8.2E(B2)
D37～40,44～47	: DSM1A1
D42,43	: 1S2076A

DESTINATION	K, P	U.M. UE	X	T, E
	0-11	0-21	0-71	2-71
R1,331	YES	NO	NO	NO
R50	15K	30K	30K	30K
Q13, C84～86 R99～107,118,119 J32, VR2,3	YES	NO	YES	NO
Q51,52 R306～309 J134,274～276	NO	YES	YES	YES
C113,114, CN1,2 R163,164, S3,4 J98,99, L11	NO	YES	NO	NO
R157,158 J49,51,54,55, 156,211	YES	YES	YES	NO
Q17,20～22,35,43,44 R141～146,181,183～193, 249, 251,255, 287～289, 322 D14,16,18～22,50,51,53,55 C126,127,129～132,136～138, 192,300,125,248 J46,50,52,53,56～59,162,165 181,5 TC2,4, T5,7, S16	NO	NO	NO	YES
J196	YES	NO	NO	NO
J197,199	NO	NO	YES	YES
J82,83	YES	NO	YES	YES
R39	10	10	10	27
R205	1.5K	1.5K	1.5K	1K
C111,112	3600P	3600P	2400P	2400P

DC voltages are as measured with a high impedance voltmeter during reception of the FM broadcast signal (with a signal strength of 60 dB at the ANT terminal). Values may vary slightly due to variations between individual instruments or/and units. Values in parentheses are as measured during reception of the AM broadcast signal (with a signal strength of 60 dB at the ANT terminal).

Les tensions c.c. doivent être mesurées avec un voltmètre à haute impédance pendant la réception d'un signal de programme FM (avec une force de signal de 60 dB à la borne ANT). Les valeurs peuvent différer légèrement du fait des variations inhérentes aux appareils et aux instruments de mesure individuels. Les valeurs entre parenthèses doivent être mesurées pendant la réception d'un signal de programme AM avec une force de signal de 60 dB à la borne ANT).

Die angegebenen Gleichspannungswerte wurden mit einem hochohmigen Spannungsmesser bei Empfang eines UKW-Signals (mit einer Feldstärke von 60 dB am Antennenanschluß) gemessen. Dabei schwanken die Meßwerte aufgrund von Unterschieden zwischen einzelnen Instrumenten oder Geräten u.U. geringfügig. Die eingeklammerten Gleichspannungswerte wurden bei Empfang eines MW-Signals (mit einer Feldstärke von 60 dB am Antennenanschluß) gemessen.

CAUTION: For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list). ⚠ Indicates safety critical components. To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.

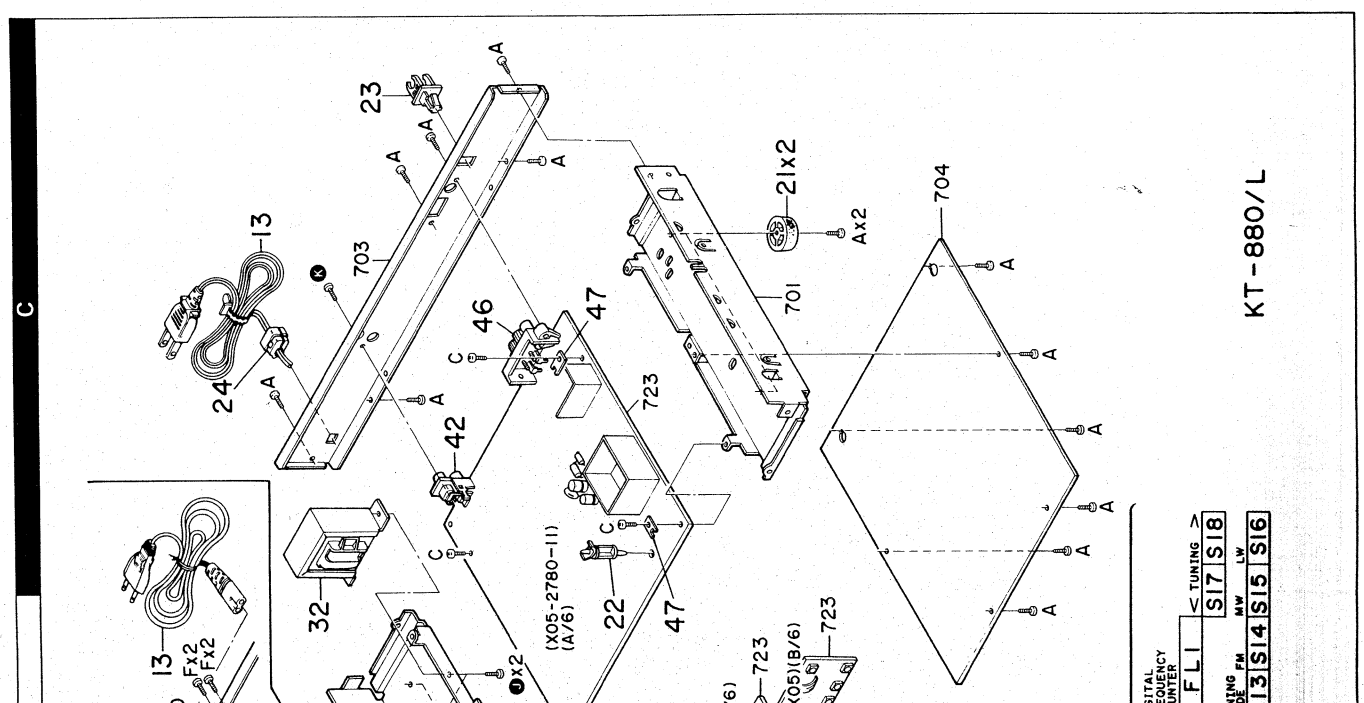
KT-880(K)

KT-880/L2

KENWOOD

KT-880/L

EXPLODED VIEW



Parts with the exploded numbers larger than 700 are not supplied.

PARTS L

* New Parts
Parts without **Parts No.** are not supplied.
Les articles non mentionnes dans le **Parts No.** ne sont pas fournis.
Teile ohne **Parts No.** werden nicht geliefert.

Ref. No. 参照番号	Address 位置	New Parts 新	Parts No. 部品番号	
				KT-880
1	1A	*	A01-1353-01	METALL
2	2A	*	A20-4116-02	PANEL
2	2A	*	A20-4116-02	PANEL
2	2A	*	A20-4117-02	PANEL
2	2A	*	A20-4118-02	PANEL
3	2B	*	A22-0469-03	SUB PA
7	2A		B07-1066-04	ESCUTC
8	2A	*	B10-0558-03	FRONT
-			B46-0092-03	WARRAN
-			B46-0094-03	WARRAN
-			B46-0095-03	WARRAN
-			B46-0096-03	WARRAN
-			B46-0121-03	WARRAN
-			B46-0122-03	WARRAN
-			B46-0123-03	WARRAN
-		*	B50-5402-00	INSTRU
-		*	B50-5402-00	INSTRU
-		*	B50-5403-00	INSTRU
-		*	B50-5404-00	INSTRU
-		*	B50-5405-00	INSTRU
-		*	B50-5406-00	INSTRU
-			B58-0223-04	CAUTIO
-			B58-0245-23	CAUTIO
-			B58-0269-04	CAUTIO
-			B58-0513-04	CAUTIO
-			B59-0092-00	SERVIC
D1 ,2	2B		B30-0431-05	LED(LN
⚠ 11	1B		E03-0102-15	AC INL
⚠ 11	1B		E03-0102-15	AC INL
12	1B		E30-0505-05	AUDIO
⚠ 13	1C		E30-0181-05	AC POW
⚠ 13	1B		E30-1305-15	AC POW
⚠ 13	1B		E30-1328-15	AC POW
⚠ 13	1B		E30-1329-05	AC POW
⚠ 13	1B		E30-1342-05	AC POW
17	2A		F19-0349-04	BLIND
-		*	H01-5265-04	ITEM C
-		*	H01-5265-04	ITEM C
-		*	H01-5266-04	ITEM C
-		*	H01-5267-04	ITEM C
-			H10-1671-23	POLYST
-			H25-0078-04	PROTEC
-			H25-0181-04	PROTEC
-			H25-0224-04	PROTEC
21	1B,2C		J02-0130-05	FONT
22	1B		J19-0515-05	UNIT H
23	1C		J19-0626-12	ANTENNA
⚠ 24	1C		J42-0083-05	POWER
-			J61-0307-05	WIRE BA
27	2A		K27-1082-04	KNOB (I

E: Scandinavia & Europe H:Audio Club K: USA P: Canada
S: South Africa T: England U: PX(Far East, Hawaii)
UE: AAFES(Europe) X: Australia M: Other Areas

Kenwood follows a policy of continuous advancements in development. For this reason specifications may be changed without notice.

KENWOOD

QUARTZ SYNTHESIZER AM

Specifications (KT-880)

[FM tuner section]

Usable sensitivity	10.8 dBf (0.95 μV)
50dB quieting sensitivity	
Mono	16.2 dBf (1.8 μV)
Stereo	38.8 dBf (24.0 μV)
Signal to noise ratio	
Mono	88 dB at 65 dBf, 88 dB at 85 dBf
Stereo	76 dB at 65 dBf, 83 dB at 85 dBf
Total harmonic distortion	
Mono: 100 Hz	0.020%
1 kHz	0.018%
50 Hz ~ 10 kHz	0.020%
Stereo: 100 Hz	0.040%
1 kHz	0.020%
50 Hz ~ 10 kHz	0.1%
Capture ratio	1.0 dB (2.5 dB for European model)
Alternate channel selectivity	65 dB
Stereo separation	
1 kHz	68 dB
50 Hz ~ 10 kHz	35 dB
15 kHz	35 dB
Frequency response	20 Hz to 15 kHz +0.2 dB, –1.0 dB
Spurious rejection ratio	100 dB
Image rejection ratio	78 dB
IF rejection ratio	100 dB
AM suppression ratio	70 dB
Subcarrier suppression ratio	67 dB
Antenna impedance	75 ohms unbalanced
FM frequency range	87.5 MHz to 108 MHz
Output level/impedance at 1 kHz, 100% dev.	
Fixed	0.6V/3.3 kΩ

[AM tuner section]

Usable sensitivity	10 μV
Signal to noise ratio	50 dB
Total harmonic distortion	0.3%
Image rejection	40 dB
Selectivity	30 dB
Output level/impedance (400 Hz, 30% Mod.)	0.18V, 3.3 kΩ

[General]

Power requirement	120V, 60 Hz (U.S.A. and Canada models) 120/220 – 240V, (Switchable) 50/60 Hz (Others)
Power consumption	10 W
Dimensions	W: 440 mm (17-5/16") H: 64 mm (2-1/2") D: 317 mm (12-1/2")
Weight (Net)	3.3 kg (7.3 lb)

Specifications (KT-880L)

[FM tuner section]

Sensitivity at 75 ohms	
Mono: S/N 26 dB, 40 kHz dev	0.5 μV
Stereo: S/N 46 dB, 46 kHz dev	24.0 μV
Limiting level	
–3 dB point, 40 kHz dev	0.45 μV
Frequency response	20 Hz ~ 15 kHz, +0.2 dB, –1.0 dB
Total harmonic distortion	
Mono: 1 kHz, 40 kHz dev	0.09%
Stereo: 1 kHz, 46 kHz dev	0.30%
S/N weighted (IEC-A)	
Mono: 40 kHz dev., 1 mV input	78.0 dB
Stereo: 46 kHz dev., 1 mV input	67.0 dB
S/N unweighted	
Mono: 40 kHz dev., 1 mV input	72.0 dB
Stereo: 46 kHz dev., 1 mV input	67.0 dB
FM stereo separation: 1 mV input	
250 Hz	45 dB
1 kHz	50 dB
6.3 kHz	41 dB
12.5 kHz	32 dB
Image rejection ratio	78 dB
IF rejection ratio	100 dB
AM suppression ratio	70 dB
Spurious rejection ratio	100 dB
Capture ratio	2.5 dB
Subcarrier suppression	
19 kHz: 46 kHz dev.	55 dB
38 kHz: 46 kHz dev.	62 dB
Alternate channel selectivity	
±300 kHz, 20 dB input	85 dB

[MW tuner se
Usable sensit
S/N ratio: 1 r
Image rejecti
Total harmon
Selectivity....

[LW tuner se
Usable sensit
S/N ratio: 1 r
Image rejecti
Total harmon
Selectivity....

[General]
Power requir

Power consu
IEC.....
Dimensions (
Weight (Net)

* New Parts
Parts without **Parts No.** are not supplied.
Les articles non mentionnes dans le **Parts No.** ne sont pas fournis.
Teile ohne **Parts No.** werden nicht geliefert.

Ref. No.	Address	New Parts	Parts No.	Description	Destination	Remarks
28	2A,2B		K29-1924-04	KNOB(BTN),MEM,TUN,MODE,FM,MW,LW		
32	1B	*	L01-3911-05	POWER TRANSFORMER	KP	
32	1B	*	L01-3914-05	POWER TRANSFORMER	UMLUEX	
32	1B	*	L01-3914-05	POWER TRANSFORMER	TE	
J	1B		N09-0304-05	TAPTITE SCREW(M4X8) PWR TRANSF		
K	1C		N09-0292-05	STEPPED SCREW(Ø3X19)PHBND JACK	TE	
36	1B		T90-0104-15	LOOP ANTENNA	KPUM	
36	1B		T90-0104-15	LOOP ANTENNA	UEX	
36	1B		T90-0111-15	LOOP ANTENNA	TE	
37	1B		T90-0132-05	T TYPE ANTENNA (FM)		
38	1B		T90-0136-05	ANTENNA ADAPTOR		
TUNER (XO5-2780-11)						
D58 –68	2B		B30-0431-05	LED(LN21CPH)MEM,STEREO,SIGNAL		
C2			CC45SL1H070D	CERAMIC 7. OPF D		
C3			CC45FPH1H390J	CERAMIC 39PF J		
C4			CC45FTH1H100D	CERAMIC 10PF D		
C5			CC45SL1H010C	CERAMIC 1. OPF C		
C6			CK45FF1H103Z	CERAMIC 0.010UF Z		
C7 ,8			CK45FB1H102K	CERAMIC 1000PF K		
C9			CC45FPH1H390J	CERAMIC 39PF J		
C10			CC45FTH1H120J	CERAMIC 12PF J		
C11			CC45SL1H020C	CERAMIC 2. OPF C		
C12			CK45FF1H103Z	CERAMIC 0.010UF Z		
C13			CC45FPH1H390J	CERAMIC 39PF J		
C14			CC45FTH1H080D	CERAMIC 8. OPF D		
C15			CC45FSL1H010C	CERAMIC 1. OPF C		
C16 ,17			CC45FSL1H100D	CERAMIC 10PF D		
C18			CK45FB1H681K	CERAMIC 680PF K		
C19			CK45FF1H103Z	CERAMIC 0.010UF Z		
C20			CC45FSL1H050C	CERAMIC 5. OPF C		
C21			CC45FPH1H330J	CERAMIC 33PF J		
C22		*	CC45FRH1H030C	CERAMIC 3. OPF C		
C23			CC45FTH1H080D	CERAMIC 8. OPF D		
C24			C91-0769-05	CERAMIC 0.01UF M		
C25			CC45FSL1H150J	CERAMIC 15PF J		
C26			CC45FSL1H330J	CERAMIC 33PF J		
C27			CC45FSL1H020C	CERAMIC 2. OPF C		
C28			CC45FSL1H470J	CERAMIC 47PF J		
C29			CK45FF1H103Z	CERAMIC 0.010UF Z		
C30			CE04FW1C470M	ELECTRO 47UF 16WV		
C31			CK45FF1H103Z	CERAMIC 0.010UF Z		
C32			CC45FSL1H390J	CERAMIC 39PF J		
C33			CK45FF1H103Z	CERAMIC 0.010UF Z		
C35 –43			C91-0769-05	CERAMIC 0.01UF M		
C44 ,45			CE04FW1H010M	ELECTRO 1. OUF 50WV		
C46			CK45FF1H473Z	CERAMIC 0.047UF Z		
C47			CE04FW1HR47M	ELECTRO 0.47UF 50WV		
C48			C91-0769-05	CERAMIC 0.01UF M		
C49			CE04FW1H010M	ELECTRO 1. OUF 50WV		
C50 ,51			C91-0769-05	CERAMIC 0.01UF M		
C55 –60			C91-0769-05	CERAMIC 0.01UF M		
C61			CE04FW1C101M	ELECTRO 100UF 16WV		
C63			CC45FSL1H220J	CERAMIC 22PF J		

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S: South Africa T: England U: PX(Far East, Hawaii)
UE: AAFES(Europe) X: Australia M: Other Areas

⚠ Indicates safety critical components.

⚠ Indicates safety critical components.

(X05-2780-11)(A/6)

FM ANT.
GND
AM LOOP ANT.

FM RF AMP
MIX
IF AMP
IF AMP CONTROL
IF AMP STOP
SIGNAL METER DRIVE
MUTE DRIVE
AVR CIRCUIT
QUAD DET
LEVEL DET
INV CIRCUIT
DC LEVEL DET
QUAD LIMITER
MUTE CONT
AF AMP
AFC/ TUNING METER DRIVE
S METER
BUFFER
OSC
AM CONTROL
FM CONTROL
MUTING CONTROL
MPX PRE AMP
AM SW
FM SW
DTS
AUTO/MANU
PROGRAM
AUTO TUNING
MEMORY
ST SIGNAL
VTUNE
VT

(X05-2780-11)(B/6)

(X05-2780-11)(F/6)

(X05-2780-11)(C/6)

2SA733 (A)
2SA954
2SA999
2SC1923
2SC2320
2SC2878
2SC945 (A)
2SD863

2SD882

2SK246

2SK301
2SK364

3SK73

2SK161
2SK241

NJM4560D-N

TD6104P

TD6301AP

LA1231NS

UPD4027BC

LA1245

UPC1163H

AN6556

TC9147BP
TC9157AP

UPC1223C

UPC78M05H

TA7060AP

IC1	: TA7060AP
IC2	: LA1231NS
IC3	: μPC1163H
IC4	: NJM4560D-N
IC5	: AN6556
IC6	: μPC1223C
IC7	: LA1245
IC8	: μPC78M05H
IC9	: TD6104P
IC10	: μPD4027BC
IC11	: TC9147BP or TC9157AP
IC12	: TD6301AP
Q1,2	: 3SK73(GR)
Q3	: 2SK241(GR)
Q4～6	: 2SC1923(R,O)
Q7,8,20,22	: 2SK161 (Y,GR)
Q9,13,16,17,21,24,26,27,31,32,34,39,42,44,45,48, 50,51～53	: 2SC945(A)(Q,P)
Q14	: 2SK246(Y,GR)
Q12,15,23,25,30,33,37,38,40,41,43,46,47	: 2SA733(A)(Q,P)
Q18,19	: 2SC2878
Q28	: 2SD863(E,F)
Q29	: 2SD882(Q,P)
Q35,36	: 2SK364(GR,BL)
Q49	: 2SA954(L,K)
Q10,11	: 2SK301(Q,R)
D1～4,10,11	: KV1320
D5～9, 12, 14, 15, 18～22, 32, 34, 36, 41, 49～51, 53～55	: 1S2076
D13	: RD5.1E(B2)
D16,17	: KV1226(EF) (X)
D35	: RD8.2E(B2)
D37～40, 44～47	: DSM1A1
D42,43	: 1S2076A

DESTINATION	K, P	U.M. UE	X	T, E
	0-11	0-21	0-71	2-71
R1, 331	YES	NO	NO	NO
R50	15K	30K	30K	30K
Q13, C84～86 R99～107, 118, 119 J32, VR2,3	YES	NO	YES	NO
Q51,52 R306～309 J134, 274～276	NO	YES	YES	YES
C113, 114, CN1,2 R163, 164, S3, 4 J98, 99, L11	NO	YES	NO	NO
R157, 158 J49, 51, 54, 55, 156, 211	YES	YES	YES	NO
Q17, 20～22, 35, 43, 44 R141～146, 181, 183～193, 249, 251, 255, 287～294, 322 D14, 16, 18～22, 50, 51, 53, 55 C126, 127, 129～132, 136～138, 192, 300, 125, 298 J46, 50, 52, 53, 56～59, 162, 165 181, 5 TC2, 4, T5, 7, S16	NO	NO	NO	YES
J146	YES	NO	NO	NO
J197, 199	NO	NO	YES	YES
J82, 83	YES	NO	YES	YES
R39	10	10	10	27
R205	1.5K	1.5K	1.5K	1K
C111, 112	3600P	3600P	2400P	2400P

DC voltages are as measured with a high impedance voltmeter during reception of the FM broadcast signal (with a signal strength of 60 dB at the ANT terminal). Values may vary slightly due to variations between individual instruments or/and units. Values in parentheses are as measured during reception of the AM broadcast signal (with a signal strength of 60 dB at the ANT terminal).

Les tensions c.c. doivent être mesurées avec un voltmètre à haute impédance pendant la réception d'un signal de programme FM (avec une force de signal de 60 dB à la borne ANT). Les valeurs peuvent différer légèrement du fait des variations inhérentes aux appareils et aux instruments de mesure individuels. Les valeurs entre parenthèses doivent être mesurées pendant la réception d'un signal de programme AM avec une force de signal de 60 dB à la borne ANT).

Die angegebenen Gleichspannungswerte wurden mit einem hochohmigen Spannungsmesser bei Empfang eines UKW-Signals (mit einer Feldstärke von 60 dB am Antennenanschluß) gemessen. Dabei schwanken die Meßwerte aufgrund von Unterschieden zwischen

CAUTION: For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list). ⚠ Indicates safety critical components. To reduce the risk of electric shock, leakage-current or resistance

KT-880(K)